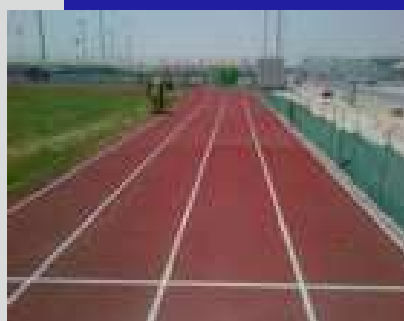


KDF

Sports Flooring Systems & Building Materials

POLTRACK JOGGING TRACK



KDF LTD (www.kdf.gr) is one of the most dynamic and export-oriented Greek companies (currently activated in more than 55 countries in 4 continents), based in Greece (EU) and U.A.E too, with production facilities and warehouses in both countries for acrylic and polyurethane materials.

We are experts in sports, industrial and decorative flooring products and systems, with huge experience in Europe, Africa, Asia, Middle East and India as well.

Our export horizon is expanding rapidly and our goal is to stand out as a model of flexibility and competitiveness. The company, being one of the pioneer companies in the sector of sports flooring systems and building materials and giving particular attention to providing a fully upgraded range of products and services, provides certified systems by **ITF, IAAF, EU norms, LNE, LABOSPORT, ISASPORT, to name but a few.**

Our systems are approved in many ministries like:

- Ministry of Education in U.A.E
- Ministry of Education in K.S.A
- Ministry of Education in Oman
- Ministry of Education in Kuwait and many other institutes like
- Oman Royal Police
- Aramco, K.S.A
- Musanada in U.A.E
- Municipality of Doha
- Municipality of Dubai, Abu Dhabi, Sharjah and many others institutions.

KDF goes far beyond trade, providing consultancy in marketing and also technical support all the way, from the costing till the finalization of the project. Operating under the requirements of ISO 9001/2015 for production, trade and also application, we make sure our products are first applied successfully at site by our own people before we launch them abroad.

Therefore, our systems have all stood the real life test in different climates, from Middle East till Russia, and this is one of our main assets, enabling us to provide full and vertical technical support from specifying to final application plus supervision when required or even full application and costing.

We invite you to discover a world of sports flooring expertise and solutions.

VIEW OUR NEW SPORTS CATALOGUE



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57010, Thessaloniki, Greece
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INDICATIVE REFERENCE LIST OF PROJECTS

-12 SCHOOLS IN U.A.E, MINISTRY OF EDUCATION(THROUGH VARIOUS CONTRACTORS) - 40000m² EPDM Rubber flooring

-UNIVERSITY OF DAMMAM - KSA - 13000m² - Acrylic cushion floorings

-KING ABDULLAH BASE AIR DEFENSE - TAIF, KSA - 12600 m² - Running track

-KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS-DHARAN, KSA-12400m²-Rubber outdoor flooring

-RUNNING TRACK - K.S.A- 11000 m² - Running track, POLTRACK SANDWICH system

-GEMS SCHOOL - DUBAI, U.A.E - 10000 m² - Running track

-PASARGRAD WHOLESALE MARKET-IRAN - 10000 m² - Decorative flooring

-YAS ISLAND, ABU DHABI, U.A.E - 10000m² Bicycle track

-ABHA STADIUM - K.S.A - 9000m² - POLTRACK SANDWICH system

-ABU DHABI STADIUM - U.A.E - 9000m² - Artificial Grass, POLITURF LEADER 55140

-ALEXANDRIA STADIUM - ALEXANDRIA, EGYPT - 8500 m² - Running track

-MINISTRY OF EDUCATION IN KUWAIT - KUWAIT - 8000m² - Polyurethane flooring, Polyflex Pu-In system

-SALAM STREET & MINA ROAD, ABU DHABI, U.A.E - 8000m² Bicycle track, Sportground-Ex system

-KING FAHAD NAVAL BASE - JUBAIL, KSA - 8000m² - Running track

-MUNICIPALITY OF VELVENTO - KOZANI, GREECE - 8000m², Running track

-ABBHA, KSA - 7600m² - Running track

-MUNICIPALITY OF ZENICA - ZENICA, BOSNIA& HERZEGOVINA - 7500m², Poltrack Spraycoat, Running track

-ADNOC SCHOOLS - U.A.E - 7000m² - Safepol system

-ATLAS CENTER-BAM, IRAN - 7000 m² - Decorative flooring

-RUNNING TRACK - SUDAN - 7000 m² - Running track, POLTRACK SPRAYCOAT system

-CORNISH, JEDDAH, K.S.A - 6000m² Bicycle track Sportground-Ex system

-YOKOGAWA ELECTRIC CORPORATION-DHAHRAN TECHNO VALLEY-DAMMAM, KSA - 5500m²- Epoxy antistatic floorings

-AMITY INTERNATIONAL SCHOOL - ABHU DHABI, U.A.E - 5500m², Poltrack Spraycoat, Running Track

-SHUQAIQ WATER AND ELECTRICITY COMPANY - JIZAN, KSA - 5400 m² - acrylic courts

-TALEEM UPTOWN SCHOOLS - DUBAI, UAE - 5400m²-Acrylic sports courts systems

-SAUDI AIR FORCE - KSA - 5250 m² - Acrylic coating elastoturf, running track

-RUNNING TRACK - K.S.A - 5000 m² - Running track, POLTRACK SANDWICH system

-AL HAMRA, RAS AL KHAIMAH, U.A.E - 5000m² Bicycle track, Sportground-Ex system

-AIRBASE IN TAIF - KSA - 5000 m² - Running track

-DEPARTMENT OF EDUCATION ASIR REGION - KHAMIS, KSA - 4500 m² - Running track

-SERVIA STADIUM - KOZANI, GREECE - 4500m², Running track

-COMMUNITY COLLEGE - KHAMIS, KSA - 4200 m² - Running track

-MULTIPLE RUNNING TRACKS - ALGERIA - 40000 m² - Running track, POLTRACK SPRAYCOAT system

-SPORTS CLUB CENTER GLIFADA - ATHENS, GREECE - 4000m²- Poltrack Spraycoat, Running Track

-EMIRATES INTERNATIONAL SCHOOL - DUBAI, U.A.E - 4000m² - Safepol System, Playground flooring

-HH KHALID BIN BANDAR - RIYADH, KSA - 3800 m² - Volleyball/basketball rubber courts

-RUNNING TRACK- UKRAINE - 3600m² - RunningTrack, Poltrack Spraycoat system

-ANATOLIA GOLLEGE - THESSALONIKI, GREECE - 3600m², Running track

-AIMARJAN ASLAND – PARTIAL - 3600m²- Poltrack Sandwich, Running Track

-RUNNING TRACK - ISRAEL - 3500 m² - Running track, POLTRACK SANDWICH system

-MATRIX SPORTING CLUB - EGYPT - 3400 m² - Polyurethane outdoor flooring, Polyflex PU-EX System
-SPORTS CLUB CENTER KISSAMOS - CRETE, GREECE - 3200m²- Poltrack Sandwich, Running Track
-AL LUSAIL SPORTS CLUB - DOHA, QATAR - 3200m² - Jogging track
-SPORTS CLUB CENTER - SERBIA, GREECE - 3200m² - Poltrack Sandwich, Running Track
-STADIUM CENTER - UKRAINE - 3200m² - RunningTrack, Poltrack Spraycoat system
-KING KHALID UNIVERSITY - ABHA, KSA - 3100 m² - Running track
-AL FAIOUM UNIVERSITY - FAIOUM, EGYPT - 3000m²- Polyurethane indoor flooring, Polyflex PU-IN system
-SPORTS CLUB CENTER "PAPAGOU" - ATHENS, GREECE - 3000m²- Poltrack Sandwich, Running Track
-PANORAMA SPORTS COMPLEX - THESSALONIKI, GREECE - 3000m², Running track
-INDIAN ARMY - SAGAR, INDIA - 2800m²- Acrylic sports courts
-ALL SAINTS SCHOOL - MUMBAI, INDIA - 2700 m² - PU outdoor sports flooring and running track
-INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH-BHOPAL, INDIA-2700m² -Acrylic sports courts
-OUR OWN GOLF SCHOOL - 2700m²- Poltrack Spraycoat, RunningTrack
-AL RAYAN, QATAR - 2500 m² - Running track, POLTRACK SANDWICH system
-OUTDOOR SPORTS VENUE - VARNA, BULGARIA - 2500 m² - Acrylic, ITF classified, 8 layers system
-ALHOSN SPORTS COMPLEX - 2400 m² - Running track, POLTRACK SANDWICH system
-TEACHERS COLLEGE - ABHA, KSA - 2050 m² - Running track
-MUSAB BIN OMAIR BOYS SCHOOL - BIN OMRAN, QATAR - 2050 m² - PU outdoor sport flooring
-BURAIRAT SCHOOL - RAK, UAE - 2000 m² - Running track
-HADAYEK ALAHRAM CLUB - GIZA, EGYPT - 2000m², PU outdoor sports flooring, POLYFLEX PU-EX WET-POUR system
-AL SAILIYA BOYS SCHOOL - AL SAILIYA, QATAR - 2000 m² - Polyurethane, outdoor sport flooring
-KING KHALID UNIVERSITY - ABHA, KSA - 2000 m² - Volleyball/basketball rubber courts
-HH KHALID BIN BANDAR - RIYADH, KSA - 2000 m² - Volleyball/basketball rubber courts
-RAWDA RASHEED PRIMARY SCHOOL FOR BOYS - 2000 m²
-DAMIETTA GOVERNMENT - EGYPT - 2000m² - Running track, Poltrack Spraycoat Sealed System
-AL WAKAIR BOYS SCHOOL - AL WAKRAH, QATAR - 1950 m² - Polyurethane, outdoor sport flooring
-THE LAKE DISTRICT - PUNE, INDIA - 1950m²- Acrylic sports courts
-PRESIDENTIAL GUARD COMMANDM MAHAWI - ABU DHABI, UAE - 1900m² - Football court
-UNITED (SABIC) SPORTS CLUB - 1900 m² - Rubber flooring
-SHOOLS MINISTRY OF EDUCATION - KHAMIS, KSA - 1800 m² - Rubber floorin
-AL MAJAD AMPHITHEATER - SHARJA, UAE - 1800m² - Certified Jogging track
-QASSIM UNIVERSITY - KSA - 1800 m² - Polyurethane sports flooring
-AL QADSIYA MODEL INDEPENDENT SCHOOL - ALWAAB, QATAR - 1770 m² - PU outdoor sport flooring
-AL WAHDA SPORT ACADEMY CLUB - ABU DHABI, UAE - 1700 m² - Acrylic sports system
-ALSARH SCHOOLS OF CIVIL - RIYADH, KSA - 1650m² - PU glue/Soccer field
-GD GOENKA PUBLIC SCHOLL - PURNIA, INDIA - 1630m²- Acrylic sports courts
-SPA RESORT DERENIVSKUPIA KI - UZHGOROD, UKRAINE - 1600 m² - Flexfloor-ex system, volleyball court
-THE MILITARY HOSPITAL - RIYADH, KSA - 1560 m² - Volleyball/basketball rubber courts
-THE MILITARY HOSPITAL - RIYADH, KSA - 1560 m² - Pu glue-PU sports flooring
-AL FORSHAN SPORTS CENTRE - ABU DHABI, U.A.E - 1500m² - Smartfloor system, Acrylic flooring
-INDUSTRIAL FLOORING - BULGARIA - 1500m² - Epoxy flooring, Polepox Coat 814 system
-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 1500 m² - Playground flooring

-IRAQ ARMY CAMP - IRAQ - 1500m² - Acrylic flooring in 2,2mm

-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 1500 m² - Playground flooring

-PROJECT GREEN LAND - DUBAI, UAE - 1500 m² - Jogging track

-UP TOWN SCHOOL - 1500m²- Poltrack Spraycoat, RunningTrack

-INDIAN AIR FORCE - ALLAHABAD, INDIA - 1450m² - Acrylic sports courts

-DUBAI MODERN HIGH SCHOOL - DUBAI, UAE - 1375 m² - Acrylic sports courts

-PROJECT ECOGREEN - DUBAI, UAE - 1350 m² - Jogging track

-POLICE COMPLEX BARRACKS NIZWA - OMAN- 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL AJAIZ - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS KATMATMILAH SITE - OMAN- 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS SUWAIQ - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KAMIL - OMAN - 1300 m² - Colorflex, PU sport flooring

-PLAYGROUND FLOORING - BAHRAIN - 1300m² - Safepol system

-POLICE COMPLEX BARRACKS SHINAS - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS BHALA - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS MUDHAIBI - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS THUMRAIT - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KHOUDH - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS MAHDAH - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS BID BID - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KHABOORA - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS DHANK - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS HAFEET - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AUQAD - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS SUMAIL - OMAN - 1300 m² - Colorflex, PU sport floor

-OUTDOOR SPORTS VENUE - KOSOVO - 1300 m² - POLTRACK SPRAYCOAT System

-ALHALAFI BREAK - RIYADH, KSA - 1276 m² - Rubber flooring

-GI-DHOFAR BEACH RESORT & SPA - OMAN - 1225 m² - Colorflex, PU sport flooring

-RLS BASIC EDUCATION SCHOOL SOHAR - OMAN - 1225 m² - Colorflex, PU sport flooring

-MIXED BASIC EDUCATION SCHOOL AL QABIL - OMAN - 1225 m² - Colorflex, PU sport flooring

-BOYS BASIC EDUCATION SCHOOL BARKHA - OMAN - 1225 m² - Colorflex, PU sport flooring

-GIRLS BASIC EDUCATION SCHOOL MUDHAIBI - OMAN - 1225 m² - Colorflex, PU sport flooring

-MIXED BASIC EDUCATION SCHOOL AL AMERAT - OMAN - 1225 m² - Colorflex, PU sport flooring

-UMSALAMA GIRLS SCHOOL - AL RAYYAN, QATAR - 1200 m² - Polyurethane, outdoor sport flooring

-SHERATON PARK - DOHA, QATAR - 1200 m² - Playground flooring

-RAWDA BIN JASSIM SCHOOL - AL AZIZIYAH, QATAR - 1200 m² - Polyurethane, outdoor sport flooring

-GEMS WESTMINISTER SCHOOL - DUBAI, U.A.E - 1200 m² - Acrylic sports courts

-SILVER SPORTS CLUB - INDIA - 1200m²- Acrylic sports courts

-OUR OWN SCHOOL - SHARJA, U.A.E - 1200m² - Acrylic sports courts

-SHARJAH FOOTBALL CLUB - SHARJAH, UAE - 1200 m² - Polyurethane basketball courtsing

-MATRIX SPORTING CLUB - EGYPT - 1300 m² - Acrylic flooring, Flexfloor System

-SHERATON PARK - DOHA, QATAR - 1200 m² - Playground flooring

-SYMBIOSIS COLLEGE - INDIA - 1180m² - Acrylic sports courts

-PROFESSOR ABDULAZIZ ANQARI - RIYADH, KSA -1150m² - PU glue/Socccer field

-AL SAQID ISLAMIC ENGLISH SHCOLL-DUBAI,UAE-1100m²- Acrylic flooring, WET-POUR POLYFLEX AEL-EX
-FIRST POINT SCHOOLS - DUBAI, UAE - 1100m² - Acrylic sports courts
-MAADI BRITISH SCHOOL- EGYPT - 1100m², Multipurpose court, COLORFLEX system
-DUBAI AMERICAN ACADEMY - DUBAI, UAE - 1080 m² - Acrylic sports court
-PRELUDE PUBLIC SCHOOL - AGRA, INDIA - 1070m²- Acrylic sports courts
-ALMGBAL BREAK - RIYADH, KSA - 1050 m² - Rubber playground
-BANIYAS CLUB AND AL AIN ENGLISH SPEAKING SCHOOL - ABU DHABI, UAE - 1000m² - Acrylic flooring
-WADY DEGLA LOTUS PROJECT - CAIRO, EGYPT- 1000 m² - Acrylic flooring, Wet-Pour Polyflex AEL-EX system.
-MINISTRY OF EDUCATION - DAMMAM, KSA - 1000 m² - PU indoor multipurpose sports flooring
-SHEIKH OBEID MAKTHOUM PALACE - 1000m² - Outdoor polyurethane flooring
-INDIAN AIR FORCE - AGRA, INDIA - 1000m²- Acrylic sports courts
-INDIAN AIR FORCE - LUCKNOW, INDIA - 1000m²- Acrylic sports courts
-MULTIPURPOSE POLYURTEHANE INDOOR COURTS - F.Y.R.O.M - 1000m² - Polyflex PU-In system
-SODIC PROJECT - EGYPT - 1000m², Multipurpose court, COLORFLEX system
-INDIAN AIR FORCE - VARANASI, INDIA - 1000m²- Acrylic sports courts
-INTERNATIONAL SCHOOL OF CREATIVE SCHIENCE - SHARJAH, U.A.E - 1000m² - Safepol System
-INDIAN AIR FORCE - BIHTA, INDIA - 1000m²- Acrylic sports courts
-INDIAN AIR FORCE - DARBHANGA, INDIA - 1000m²- Acrylic sports courts
-AL AIN INDIAN SCHOOL - AL AIN, UAE - 1000m² - Football court
-DUBAI SCHOLRAS PRIVATE SCHOOL - DUBAI, U.A.E - 1000m² - Acrylic flooring in 2,2mm
-COMMUNITY COLLEGE - KHAMIS, KSA - 940 m² - Polyurethane indoor multipurpose sports flooring
-GEMS METROPOLE SCHOOL - DUBAI, U.A.E - 900 m² - Playground flooring
-MINISTRY OF EDUCATION - ABHA, KSA - 900 m² - Polyurethane indoor multipurpose sports flooring
-BAB AL SHAMS SPA HOTEL - DUBAI, UAE - 900m² - Football court
-KING KHALID UNIVERSITY - ABHA, KSA - 820 m² - Polyurethane indoor multipurpose sports flooring
-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 800m² - Polyurethane sports flooring
-SULTAN MANOR - RIYADH, KSA - 800 m² - Polyurethane multipurpose sports flooring
-MINISTRY OF EDUCATION - AL KHARIZ, KSA - 800 m² - PU indoor multipurpose sports flooring
-INDOOR SPORTS COURT - MALAYSIA - 800 m² - PU indoor sports flooring
-KID'S PLAY AREA IN MALL - MOROCCO - 800 m² - PU indoor sports flooring, POLYFLEX PU-IN system
-DUBAI ENGLISH SPEAKING COLLEGE - DUBAI, UAE - 783m² - Acrylic flooring, SPORTFLOOR-EX, HARD COURT
-SINGAPORE AIRLINES - SINGAPORE - 735m² - PU indoor sports flooring
-AL DAJAN COMPANY - GASIM, KSA - 722 m² - Polyurethane sports flooring/Tennis court
-SELECTIVE GOVERNMENT HIGH SCHOOL - EGYPT - 720m², Outdoor sports flooring
-INDIAN AIR FORCE - AHMEDABAD, INDIA - 720m²- Acrylic sports courts
-FITNESS TIME - FAYSALIA, DAMMAM, KSA - 700 m²-PU indoor multipurpose sports flooring/running track
-FITNESS TIME YASMEEN - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track
-FERRARI WORLD - ABU DHABI, UAE - 700m² - Playground flooring
-FITNESS TIME JUNIOR - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track
-FITNESS TIME - OLAYA RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/ running track
-FITNESS TIME WAHA - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track
-FITNESS TIME, NOOR BRANCH - DAMMAM, KSA -700 m² - PU indoor sports flooring and running track
-FITNESS TIME, ALAMEEN BRANCH - DAMMAM, KSA - 700 m² - PU indoor sports flooring and running track
-FITNESS TIME, PLUS RIYADH - RIYADH, KSA - 700 m² - PU indoor sports flooring and running track

-FITNESS TIME, SALAMA BRANCH BRO & FITNESS - JEDDAH, KSA - 700 m² - PU indoor sports flooring

-FITNESS TIME, 40th BRANCH - JEDDAH, KSA - 700 m² - PU indoor sports flooring and running track

-NASR CLUB- EGYPT - 700m², Multipurpose court, POLYFLEX WET-POUR system

-HUREL DOUBLE 3 - RAS AL KHAIMH, KSA - 700 m² - Shockpad plus acrylic coatings

-THE SUSTAINABLE CITY - DUBAI, U.A.E - 700 m² - Acrylic flooring

-EMAAR - EMIRATES HILLS 2 - DUBAI, U.A.E - 700m² - Basketball court, Acrylic flooring

-AIRFORCE SURBOTO PARK - NEW DELHI, INDIA - 680 m² - Polyurethane outdoor sports flooring

-INDIAN ARMY - DHRANGDHARA, INDIA - 670m²- Acrylic sports courts

-MT.SAINT PATRICK ACADEMY - INDIA - 665m²- Acrylic sports courts

-REGIONAL HQ AT BURAIMI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE RUSTAQ - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE LIWA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SALIL - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE IBRI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE IBRA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SUR - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL DUKUM - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL BURAIMI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL NIZWA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SUWAIQ - OMAN - 650 m² - Colorflex, PU sport flooring

-ABU DHABI MUNICIPALITY - ABU DHABI , UAE - 650 m² - Acrylic flooring

-ROYAL OMAN POLICE TASK FORCE AL SALALAH - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL BARKHA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE KHOUDH - OMAN - 650 m² - Colorflex, PU sport flooring

-MULTIPURPOSE COURTS - TIRANA, ALBANIA - 650 m² - Acrylic sports flooring, FLEXFLOOR system

-MOHAMMED JASSIM M AL THANI SCHOOL - UMSALALALI, QATAR - 620 m² - PU outdoor sport flooring

-QATAR GEMS SCHOOL - DOHA, QATAR - 615 m² - Polyurethane sports flooring

-VAISHNO DEVI - DELHI, INDIA - 608 m² - Polyurethane outdoor sports flooring

-INDIAN ARMY - AGRA, INDIA - 600m²- Acrylic sports courts

-THE INTERNATIONAL SCHOOL - AGRA, INDIA - 600m²- Acrylic sports courts

-INDIAN ARMY - JHANSI, INDIA - 600m²- Acrylic sports courts

-THE SUSTAINABLE CITY - DUBAI, U.A.E - 600 m² - Safepol system

-AMITY SCHOOL, JUMEIRAH ISLAND - DUBAI, UAE - 600 m² - Safepol system

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - 600 m² - Flexfloor system

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - 600 m² - Polyflex Ael-EX system

-SKATING FOR KIDS - GUJARAT, INDIA - 600 m² - Sportfloor system

-NEW DUBAI BRADENTON SCHOOL- DUBAI, UAE - 570 m² - Acrylic sports courts

-DUBAI SILICON OSIS-CENTRAL PARK, DSO - DUBAI, UAE - 560 m² - Jogging track

-MPS WORLD SCHOOL - AGRA, INDIA - 560m²- Acrylic sports courts

-AL WUKAIR GIRLS SCHOOL - AL WAKRAH, QATAR - 550 m² - Polyurethane, outdoor sport flooring

-BBPS - DELHI, INDIA - 512 m² - Polyurethane outdoor sports flooring

-IVY STATE - PUNE, INDIA - 511m²- Acrylic sports courts

-KUNAL ICONIA - INDIA - 510m²- Acrylic sports courts

-AMERICAN SCHOOL OF DUBAI - DUBAI, UAE - Acrylic sports courts

-ETIHAD MUSEUM - JUMEIRAH, DUBAI, UAE - Rubber flooring
-CARPARKING - ABU DHABI, UAE - Acrylic flooring
-DUBAI MILLENIUM SCHOOL - QUSAIS, UAE - Acrylic sports courts
-AMERICAN UNIVERSITY - DUBAI, UAE – Acrylic outdoor sports flooring
-RAK ACADEMY - RAK, UAE - Acrylic flooring
-ISCS - SHARJA, UAE - Acrylic flooring
-THE INTERNATIONAL SCHOOL OF CHOUEIFAT - AJMAN, U.A.E - Sportground-Ex system
-THE KINDER GARDEN STARTERS - DUBAI, U.A.E - Safepol system
-AL ZAHIA PROJECT - SHARJA, UAE - Safepol system
-WADY DEGLA SHERATON CLUB - CAIRO, EGYPT - Acrylic sports flooring
-GEMS WELLINGTON SCHOOL - DUBAI, U.A.E - Safepol system
-JUMEIRAH RETAIL DEVELOPMENT - JUMEIRAH, DUBAI, UAE - Safety rubber flooring
-MR.ABDULRHMIN - JUBAIL, KSA - Rubber playground
-GEMS WESTMINISTER SCHOOL - DUBAI, U.A.E - Safepol system
-POLYURETHANE INDOOR SPORTS COURT - TIRANA, ALBANIA - Polyflex PU-In system
-MULTIPURPOSE COURTS - ODESSA, UKRAINE - Rubber flooring
-MULTIPURPOSE COURTS - ZHOVKVA, UKRAINE - Rubber flooring
-MUNICIPAL TENNIS CLUB - PATRA, GREECE - Flexfloor-EX system, Acrylic sports courts
-INDIAN AIR FORCE - GORAKHPUR, INDIA - Acrylic sports courts
-INDIAN AIR FORCE - BAREILLY, INDIA - Acrylic sports courts
-INDIAN ARMY - BABINA, INDIA - Acrylic sports courts
-ADAM AIRBASE PACKAGE 8, OMAN - Colorflex, PU sport flooring
-GOLD GYM - KOLKATTA, INDIA - Polyurethane indoor sports flooring
-MINISTRY OF FOREIGN AFFAIRS - ABU DHABI, UAE - Polyurethane flooring
-SHRJAH SPORTS CLUB - SHARJAH, UAE - Polyurethane flooring
-GEMS WINCHESTER SCHOOL - AL BARSHA SOUTH, UAE - Acrylic sports system
-HOTEL DOUBLE 3 - RAS AL KHAIMAH, UAE - Prefabricated shock-pad 4mm plus acrylic coatings
-ALNABBAGH STABLE - AL AIN, U.A.E - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING
-AL WAHDA CLUB - ABU DHABI, UAE - Rubber flooring
-ADJD MAIN BUILDING LANDSCAPE PROJECT - ABU DHABI, UAE - Rubber flooring
-KADEEJ AL KURBA SCHOOL - ABU DHABI, UAE - Rubber flooring
-INTERNATIONAL SCHOOL OF CREATIVE SCIENCE - SHARJA, U.A.E - Flexfloor system/Outdoor Multipurpose court
-ENVIRO, VATIKA HOTELS PVT.LTD - GURGAON, INDIA - Acrylic sports flooring
-ASHIANA - BHUBANESHWAR, INDIA - Acrylic sports flooring
-TCS, ADIBATLA - HYDERABAD, INDIA - Acrylic sports flooring
-IPS, ERODE - CHENNAI, INDIA - Acrylic sports flooring
-LIONS GATE - MUMBAI, INDIA - Acrylic sports flooring
-MORNING GLORY INFRA LIMITED - KANPUR, INDIA - Acrylic sports flooring
-NAMBIAR - BANGALORE, INDIA - Acrylic sports flooring
-PATHWAYS - GURGAON, INDIA - Acrylic sports flooring
-WELHAMS GIRLS SCHOOL - DEHRADUN, INDIA - Acrylic sports flooring
-WOODDUCK COMMERCIAL CENTER- IRAN - Industrial flooring
-ARABIAN RANCHES by EMAR - DUBAI, U.A.E - Playground flooring

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - Playground flooring

-POLO CLUB GHANTOOT - ABU DHABI, U.A.E - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING

-RAK MODERN SCHOOL - RAS AL KHAIMAH, U.A.E - Playground flooring

-GIIS/GLOBAL INDIAN INTERNATIONAL SCHOOL - RAS AL KHAIMAH, U.A.E - Playground flooring

-MINISTRY OF EDUCATION, NAD AL HAMAR BOYS SCHOOL - DUBAI, U.A.E - Playground flooring

-K.G. KIDS SCHOOL - AALI, BAHRAIN - Playground flooring

-SABIC BEACH CAMPS PROJECT - JUBAIL, K.S.A - Outdoor sports flooring, artificial grass.

-MINISTRY OF EDUCATION, MIZHER GIRLS SCHOOL - DUBAI, U.A.E - Playground flooring

-WARSAN STABLE - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING

-AL SHIMAL PARK - DOHA, QATAR - Playground flooring

-UM SELAL PARK - DOHA, QATAR - Playground flooring

-AL KABAN PARK - DOHA, QATAR - Playground flooring

-GEMS METROPOLE SCHOOL - DUBAI, U.A.E - Hard court system/Outdoor Multipurpose court

-ARABIAN RANCHES by EMAR - DUBAI, U.A.E - Acrylic Outdoor Tennis and Basketball courts

-RAK MODERN SCHOOL - RAS AL KHAIMAH, U.A.E - Flexfloor system

-GIIS/GLOBAL INDIAN INTERNATIONAL SCHOOL - RAS AL KHAIMAH, U.A.E - Acrylic system

-AVALON HEIGHTS - AJMAN, U.A.E - Acrylic floorings

-DELHI PRIVATE SCHOOL - DUBAI, U.A.E - Acrylic flooring

-ROYAL COMMISSION SCHOOL - JUBALI, KSA - Acrylic sports flooring

-FITNESS TIME PRO - AL AHSA BRANCH - KSA - Flexfloor, Basketball court

-FITNESS TIME PRO - MAKKAH SHARAIE - KSA - Flexfloor, Basketball court

-BIN HAM - AL AIN, UAE - Polyurethane flooring

-SHAMMA BINT MOHAMMED SHOOOL - AL AIN, UAE - Polyurethane flooring

-ABDULLAH BIN OTAIBA - ABU DHABI, UAE - Polyurethane flooring

-LIWA INTERNATIONAL SCHOOL - AL AIN, U.A.E - Colorflex outdoor sport system.

-ZOHOUR KG - MANAMA, BAHRAIN - Polyurethane sports flooring

-RAWDA RASHED - QATAR- Polyurethane, outdoor sport flooring

-SAAD BIN ABI WAQAS SCHOOL - AL RAYYAN, QATAR - Polyurethane, outdoor sport flooring

-FITNESS TIME PRO - MADINS RING ROAD BRANCH - KSA - Flexfloor, Basketball court

-AGRA CHAIN - AGRA, INDIA - Acrylic sports flooring

-SUNWORLD - NOIDA, INDIA - Acrylic sports flooring

-SSN INVESTMENTS PRIVATE LIMITED, FRIENDS COLONY - DELHI, INDIA - Acrylic sports flooring

-AJNARA - NOIDA, INDIA - Acrylic sports flooring

-BRIGHT RIDERS SCHOOL - ABU DHABI, UAE - Running track, Acrylic sports court

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - Poltrack Spaycoat system

-NCC - JAIS, INDIA - Acrylic sports flooring

-ALPHA FOUNDATION FOR EDUCATION & RESEARCH - TRICHIRAPALLI, INDIA - Acrylic sports flooring

-PUSHPANJALI FARMS - NEW DELHI, INDIA - Acrylic sports flooring

-M3M - MERLIN GURGAON, INDIA - Acrylic sports flooring

-NORTH LONDON COLLEGIATE SCHOOL - DUBAI, U.A.E - Playground flooring

-FOOT COURT - EGYPT - Running track, POLTRACK SPRAYCOAT system

-FITNESS TIME ANDALUS BRANCH - JEDDAH, K.S.A - Acrylic sports flooring, FLEXFLOOR SYSTEM

-ST.JOSEPHS WOMENS COLLEGE - ALLEPPEY, KERALA, INDIA - Polyurethane outdoor sports flooring

-WADY DEGLA SHERATON CLUB - CAIRO, EGYPT - Acrylic sports flooring

- RAILWAY SPORTS GROUND - GUNTAKAL, ANDRA PRADESH, INDIA** - Acrylic sports flooring
- TERVEL PROJECT - TERVEL, BULGARIA** - Playground flooring, SAFEPOL system
- INDOOR COURT - UKRAINE** - Polyflex PU-In system
- PRIVATE JOB - HYDERABAD, SOUTH INDIA** - Acrylic outdoor sports flooring
- RAILWAY SPORTS GROUND -GUNTAKAL, ANDRA PRADESH, INDIA**-Acrylic outdoor sports flooring, 5 layers
- MINISTRY OF EDUCATION U.A.E** - Playground flooring
- PLAYGROUND FLOORING - VARNA, BULGARIA** - SAFEPOL System

PHOTOGRAPHS OF PROJECTS



LABOSPORT CERTIFICATE FOR POLTRACK JOGGING TRACK



TEST REPORT

18-0430IT

Issued on October 01st 2018

CLIENT

**KATASKEVES DAPEDON LTD - BUILDING
SYSTEMS**

PRODUCT NAME

**POLTRACK JOGGING TRACK SYSTEM
18mm**

TYPE

JOGGING TRACK

Test according to:

**EN 14877:2013 Synthetic Surfaces for outdoor sports areas –
Specification**

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its entirety.*

The results are valid only for the submitted samples as described in this report.

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LABOSPORT CERTIFICATE FOR EPDM GRANULES

LABOSPORT

TEST REPORT

16-0492IT

Issued on October 6th 2016

CLIENT

KATASKEVES DAPEDON LTD

PRODUCT NAME

EPDM 856

TYPE

EPDM GRANULES

Test according to:

**DIN 18036-7:2014 Sports Grounds Part 7; Synthetic Turf Areas
Determination of Environmental Compatibility**

Reproduction of this test report is only authorized in its entirety

The results are solely considered valid for the specimen subjected to testing



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PAH TEST REPORT

PU BINDER 1118



Intertek Consumer Goods GmbH · Würzburger Straße 152 · 90766 Fürth · Germany

KATASKEVES DAPEDON LTD - KDF
MRS. Maria Nikolaidoy
Mitropoleos 19
54024 Thessaloniki
GREECE



Fürth, May 11/2020

TEST REPORT No. FUTYP2020-01959-A

Date sample received: March 06/2020
Period of testing: March 19/2020 – April 29/2020
Technical Director: Kerstin Scharrer

Sample description: PU Binder 1118



For the test results please refer to next pages

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Sitz Fürth
Amtsgericht Fürth, HRB 5756
USt-IdNr. DE169317871

Geschäftsführer
Reinhold Gehling



Test order

Test of a product for migration of certain elements acc. to EN 71 part 3

| Summary | Results |
|--|-------------|
| DIN EN 71-3 (Safety of toys) – Migration of certain elements | <i>pass</i> |

Sample description:

| | |
|---------|-----------|
| No. 22: | PU binder |
|---------|-----------|

Test results

Abbreviations:

n.d. = not determinable (< LoQ)

LoQ = limit of quantification

1. Migration of certain elements

1.1 Migration of certain elements -17 Elements- according to DIN EN 71-3

Sampling, extraction: DIN EN 71-3:2019-08

Measurement: ICP-OES: DIN EN ISO 11885:2009-09 / Hg: DIN EN ISO 17852:2008-04 (AFS)

Test results in mg/kg

| Parameter | LoQ | limit value category III | Sample No. 22 |
|----------------|-----|---------------------------------|---------------|
| Aluminium | 10 | 70 000 (28 130) ^y | n.d. |
| Antimony | 2 | 560 | n.d. |
| Arsenic | 1 | 47 | n.d. |
| Barium | 10 | 18 750 | n.d. |
| Boron | 10 | 15 000 | n.d. |
| Cadmium | 0.1 | 17 | n.d. |
| Chromium (III) | 3 | 460 | n.d. |
| Cobalt | 1 | 130 | n.d. |
| Copper | 10 | 7 700 | n.d. |
| Lead | 0.5 | 23 | n.d. |
| Manganese | 10 | 15 000 | n.d. |
| Mercury | 0.5 | 94 | n.d. |
| Nickel | 5 | 930 | n.d. |
| Selenium | 2 | 460 | n.d. |
| Strontium | 10 | 56 000 | n.d. |
| Tin | 3 | 180 000 | n.d. |
| Zinc | 10 | 46 000 | n.d. |

^y new limit for Aluminium valid as of May 20th, 2021; see directive (EU) 2019/1922

1.2 Migration of certain elements -Chromium VI- according to DIN EN 71-3

Sampling, extraction: DIN EN 71-3:2019-08
Measurement IC- Matrix Elimination

Test results in mg/kg

| | LoQ | limit value category III | Sample No. 22 |
|-------------|------|-----------------------------|---------------|
| Chromium VI | 0.01 | 0.053 | n.d. |

Conclusion

The tested sample of the presented product "**PU Binder 1118**" conforms to the requirements of DIN EN 71 Part 3 category 3.

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END OF REPORT



PAH TEST REPORT EPDM GRANULES



Intertek Consumer Goods GmbH · Würzburger Straße 152 · 90766 Fürth · Germany

KATASKEVES DAPEDON LTD - KDF
MRS. Maria Nikolaidoy
Mitropoleos 19
54024 Thessaloniki
GREECE

Fürth, May 12/2020

TEST REPORT No. FUTYP2020-01959-C

Date sample received: March 06/2020
Period of testing: March 19/2020 – April 29/2020
Technical Director: Kerstin Scharrer

Sample description: EPDM Granulates E1, E2, E7, E8, E11, E12, E13, E15, E16, E17, E18, E19, E20



For the test results please refer to next pages

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Sitz Fürth
Amtsgericht Fürth, HRB 5756
USt-IdNr. DE169317871

Geschäftsführer
Reinhold Gehling



Test order

Test of products for polycyclic aromatic hydrocarbons

| Summary | Results |
|----------------------|-------------|
| Further requirements | <i>pass</i> |

Sample description:

| | |
|---------|-------------------------------------|
| No. 1: | Granulate E1 (red rose) |
| No. 2: | Granulate E2 (orange) |
| No. 7: | Granulate E7 (brown) |
| No. 8: | Granulate E8 (dark brown) |
| No. 11: | Granulate E11 (light blue) |
| No. 12: | Granulate E12 (dark blue) |
| No. 13: | Granulate E13 (purple) |
| No. 15: | Granulate E15 (light grey) |
| No. 16: | Granulate E16 (dark grey) |
| No. 17: | Granulate E17 (light green) |
| No. 18: | Granulate E18 (blue) |
| No. 19: | Granulate E19 (light brown) |
| No. 20: | Granulate E20 (EPDM red 0,5-1,5 mm) |

Test results

Abbreviations:

n.d. = not determinable (< LoQ)

LoQ = limit of quantification

1. Polycyclic Aromatic Hydrocarbons according to US-EPA+ 2 EFSA PAH and according to Regulation (EC) No. 1907/2006 (REACH) Annex XVII No. 50

Test method: AfPS GS 2019:01 PAK (2019-05)

Limit of quantification: 0.1 mg/kg

Test results in mg/kg

| Parameter | CAS-No. | Sample No. 1 | Sample No.2 | Sample No. 7 | Sample No. 8 |
|----------------------|----------|--------------|-------------|--------------|--------------|
| 1 Naphthalene | 91-20-3 | 0.26 | 0.14 | 0.14 | 0.18 |
| 2 Acenaphthylene | 208-96-8 | n.d. | n.d. | n.d. | n.d. |
| 3 Acenaphthene | 83-32-9 | n.d. | n.d. | n.d. | n.d. |
| 4 Fluorene | 86-73-7 | 0.66 | 0.22 | 0.23 | 0.68 |
| 5 Phenanthrene | 85-01-8 | 1.9 | 0.40 | 0.46 | 1.1 |
| 6 Anthracene | 120-12-7 | 0.22 | n.d. | n.d. | n.d. |
| 7 Fluoranthene | 206-44-0 | 0.39 | 0.14 | 0.18 | n.d. |
| 8 Pyrene | 129-00-0 | n.d. | n.d. | 0.21 | n.d. |
| 9 Benzo(a)anthracene | 56-55-3 | 0.23 | n.d. | n.d. | n.d. |



Polycyclic Aromatic Hydrocarbons - continued

Test results in mg/kg

| Parameter | CAS-No. | Sample No. 1 | Sample No.2 | Sample No. 7 | Sample No. 8 |
|--|---------------------|------------------------|-------------------------|-------------------------|------------------------|
| 10 Chrysene | 218-01-9 | 0.28 | n.d. | n.d. | n.d. |
| ∑11+12 Benzo(b)fluoranthene + Benzo(j)fluoranthene | 205-99-2 + 205-82-3 | n.d. | n.d. | n.d. | n.d. |
| 13 Benzo(k)fluoranthene | 207-08-9 | n.d. | n.d. | n.d. | n.d. |
| 14 Benzo(e)pyrene | 192-97-2 | n.d. | n.d. | 0.21 | n.d. |
| 15 Benzo(a)pyrene | 50-32-8 | n.d. | n.d. | n.d. | n.d. |
| 16 Indeno(1,2,3-cd)pyrene | 193-39-5 | n.d. | n.d. | n.d. | n.d. |
| 17 Dibenzo(a,h)anthracene | 53-70-3 | n.d. | n.d. | n.d. | n.d. |
| 18 Benzo(ghi)perylene | 191-24-2 | n.d. | n.d. | n.d. | n.d. |
| Sum 15 PAH | | 3.3^b | 0.40^b | 0.88^b | 1.1^b |

^a For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene

^b Only contents from 0.2 mg/kg were used for summation.

| Parameter | CAS-No. | Sample No. 11 | Sample No. 12 | Sample No. 13 | Sample No. 15 |
|--|---------------------|------------------------|-------------------------|-------------------------|-------------------------|
| 1 Naphthalene | 91-20-3 | 0.34 | 0.30 | n.d. | n.d. |
| 2 Acenaphthylene | 208-96-8 | n.d. | n.d. | n.d. | n.d. |
| 3 Acenaphthene | 83-32-9 | n.d. | n.d. | n.d. | n.d. |
| 4 Fluorene | 86-73-7 | 0.19 | n.d. | 0.32 | 0.21 |
| 5 Phenanthrene | 85-01-8 | 0.87 | 0.61 | 0.65 | 0.53 |
| 6 Anthracene | 120-12-7 | n.d. | n.d. | n.d. | n.d. |
| 7 Fluoranthene | 206-44-0 | 0.25 | 0.16 | n.d. | 0.16 |
| 8 Pyrene | 129-00-0 | n.d. | n.d. | n.d. | 0.15 |
| 9 Benzo(a)anthracene | 56-55-3 | n.d. | n.d. | n.d. | n.d. |
| 10 Chrysene | 218-01-9 | 0.15 | 0.12 | n.d. | n.d. |
| ∑11+12 Benzo(b)fluoranthene + Benzo(j)fluoranthene | 205-99-2 + 205-82-3 | n.d. | n.d. | n.d. | n.d. |
| 13 Benzo(k)fluoranthene | 207-08-9 | n.d. | n.d. | n.d. | n.d. |
| 14 Benzo(e)pyrene | 192-97-2 | n.d. | n.d. | n.d. | n.d. |
| 15 Benzo(a)pyrene | 50-32-8 | n.d. | n.d. | n.d. | n.d. |
| 16 Indeno(1,2,3-cd)pyrene | 193-39-5 | n.d. | n.d. | n.d. | n.d. |
| 17 Dibenzo(a,h)anthracene | 53-70-3 | n.d. | n.d. | n.d. | n.d. |
| 18 Benzo(ghi)perylene | 191-24-2 | n.d. | n.d. | n.d. | n.d. |
| Sum 15 PAH | | 1.5^b | 0.91^b | 0.65^b | 0.53^b |

^a For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene

^b Only contents from 0.2 mg/kg were used for summation.

Polycyclic Aromatic Hydrocarbons - continued

Test results in mg/kg

| Parameter | CAS-No. | Sample No. 16 | Sample No. 17 | Sample No. 18 | Sample No. 19 |
|--|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1 Naphthalene | 91-20-3 | n.d. | n.d. | n.d. | n.d. |
| 2 Acenaphthylene | 208-96-8 | n.d. | n.d. | n.d. | n.d. |
| 3 Acenaphthene | 83-32-9 | n.d. | n.d. | n.d. | n.d. |
| 4 Fluorene | 86-73-7 | n.d. | n.d. | 0.45 | n.d. |
| 5 Phenanthrene | 85-01-8 | n.d. | 0.12 | 0.81 | 0.12 |
| 6 Anthracene | 120-12-7 | n.d. | n.d. | n.d. | n.d. |
| 7 Fluoranthene | 206-44-0 | n.d. | n.d. | n.d. | n.d. |
| 8 Pyrene | 129-00-0 | n.d. | n.d. | n.d. | n.d. |
| 9 Benzo(a)anthracene | 56-55-3 | n.d. | n.d. | n.d. | n.d. |
| 10 Chrysene | 218-01-9 | n.d. | n.d. | n.d. | n.d. |
| Σ11+12 Benzo(b)fluoranthene + Benzo(j)fluoranthene | 205-99-2 + 205-82-3 | n.d. | n.d. | n.d. | n.d. |
| 13 Benzo(k)fluoranthene | 207-08-9 | n.d. | n.d. | n.d. | n.d. |
| 14 Benzo(e)pyrene | 192-97-2 | n.d. | n.d. | n.d. | n.d. |
| 15 Benzo(a)pyrene | 50-32-8 | n.d. | n.d. | n.d. | n.d. |
| 16 Indeno(1,2,3-cd)pyrene | 193-39-5 | n.d. | n.d. | n.d. | n.d. |
| 17 Dibenzo(a,h)anthracene | 53-70-3 | n.d. | n.d. | n.d. | n.d. |
| 18 Benzo(ghi)perylene | 191-24-2 | n.d. | n.d. | n.d. | n.d. |
| Sum 15 PAH | | n.d.^b | n.d.^b | 0.81^b | n.d.^b |

^a For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene

^b Only contents from 0.2 mg/kg were used for summation.

| Parameter | CAS-No. | Sample No. 20 |
|--|---------------------|-------------------------|
| 1 Naphthalene | 91-20-3 | n.d. |
| 2 Acenaphthylene | 208-96-8 | n.d. |
| 3 Acenaphthene | 83-32-9 | n.d. |
| 4 Fluorene | 86-73-7 | n.d. |
| 5 Phenanthrene | 85-01-8 | n.d. |
| 6 Anthracene | 120-12-7 | n.d. |
| 7 Fluoranthene | 206-44-0 | n.d. |
| 8 Pyrene | 129-00-0 | n.d. |
| 9 Benzo(a)anthracene | 56-55-3 | n.d. |
| 10 Chrysene | 218-01-9 | n.d. |
| Σ11+12 Benzo(b)fluoranthene + Benzo(j)fluoranthene | 205-99-2 + 205-82-3 | n.d. |
| 13 Benzo(k)fluoranthene | 207-08-9 | n.d. |
| 14 Benzo(e)pyrene | 192-97-2 | n.d. |
| 15 Benzo(a)pyrene | 50-32-8 | n.d. |
| 16 Indeno(1,2,3-cd)pyrene | 193-39-5 | n.d. |
| 17 Dibenzo(a,h)anthracene | 53-70-3 | n.d. |
| 18 Benzo(ghi)perylene | 191-24-2 | n.d. |
| Sum 15 PAH | | n.d.^b |

^a For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene

^b Only contents from 0.2 mg/kg were used for summation.



Conclusion

The tested sample of the presented products “**EPDM Granulates E1, E2, E7, E8, E11, E12, E13, E15, E16, E17, E18, E19, E20**” conform to the EC-Regulation 1907/2006, Annex XVII No. 50.



Remark

Requirements acc. to AfPS GS 2019:01 PAK (Utilization for GS-mark from July 1st, 2020) and Regulation (EC) No. 1907/2006, Annex XVII No. 50

| Parameter | Category 1 | Category 2 | | Category 3 | | Limit value acc. to EC regulation 1907/2006, Annex XVII No. 50 | |
|---|------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--|--|
| | | a. Use by children | b. other consumer products | a. Use by children | b. other consumer products | Toys, including activity toys, and childcare articles – Components rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use | Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use |
| Benzo[a]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | | |
| Benzo[e]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[a]anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[b]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[j]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[k]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Chrysene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Dibenzo[a,h]anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[ghi]perylene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | - | - |
| Indeno[1,2,3-cd]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | - | - |
| Phenanthrene, Pyrene, Anthracene, Fluoranthene, mg/kg | < 1 – Sum | < 5 – Sum | < 10 – Sum | < 20 – Sum | < 50 – Sum | - | - |
| Naphthalene mg/kg | < 1 | < 2 | | < 10 | | - | - |
| Sum 15 PAH mg/kg | < 1 | < 5 | < 10 | < 20 | < 50 | - | - |
| Evaluation | - | - | - | - | - | pass | - |



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END OF REPORT



PAH TEST REPORT

PU BINDER plus EPDM GRANULES



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GREECE

Fürth, May 11/2020

TEST REPORT No. FUTYP2020-01959-B

Date sample received: March 06/2020

Period of testing: March 19/2020 – April 29/2020

Technical Director: Kerstin Scharrer

Sample description: EPDM Granulate E2 + PU Binder 1118



For the test results please refer to next pages

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Amtsgericht Fürth, HRB 5756
USt-IdNr. DE169317871

Geschäftsführer
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Test order

Test of products for polycyclic aromatic hydrocarbons

| Summary | Results |
|----------------------|-------------|
| Further requirements | <i>pass</i> |

Sample description:

| | |
|---------|---|
| No. 23: | Granulate E2+PU binder (mixed in the ration 100:20) |
|---------|---|

Test results

Abbreviations:

n.d. = not determinable (< LoQ)

LoQ = limit of quantification

1. Polycyclic Aromatic Hydrocarbons according to US-EPA+ 2 EFSA PAH and according to Regulation (EC) No. 1907/2006 (REACH) Annex XVII No. 50

Test method: AfPS GS 2019:01 PAK (2019-05)

Limit of quantification: 0.1 mg/kg

Test results in mg/kg

| Parameter | CAS-No. | Sample No. 23 |
|---|------------------------|-------------------------|
| 1 Naphthalene | 91-20-3 | n.d. |
| 2 Acenaphthylene | 208-96-8 | n.d. |
| 3 Acenaphthene | 83-32-9 | n.d. |
| 4 Fluorene | 86-73-7 | n.d. |
| 5 Phenanthrene | 85-01-8 | 0.19 |
| 6 Anthracene | 120-12-7 | n.d. |
| 7 Fluoranthene | 206-44-0 | n.d. |
| 8 Pyrene | 129-00-0 | 0.21 |
| 9 Benzo(a)anthracene | 56-55-3 | n.d. |
| 10 Chrysene | 218-01-9 | n.d. |
| ∑11+12 Benzo(b)fluoranthene + Benzo(j)fluoranthene | 205-99-2 + 205-82-3 | n.d. |
| 13 Benzo(k)fluoranthene | 207-08-9 | n.d. |
| 14 Benzo(e)pyrene | 192-97-2 | n.d. |
| 15 Benzo(a)pyrene | 50-32-8 | n.d. |
| 16 Indeno(1,2,3-cd)pyrene | 193-39-5 | n.d. |
| 17 Dibenzo(a,h)anthracene | 53-70-3 | n.d. |
| 18 Benzo(ghi)perylene | 191-24-2 | n.d. |
| Sum 15 PAH | | 0.21^b |

^a For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene

^b Only contents from 0.2 mg/kg were used for summation.



Conclusion

The tested sample of the presented products “**EPDM Granulate E2 + PU Binder 1118**” conforms to the requirements of AfPS GS 2019:01 PAK, Category 1 (Materials intended to be put into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for use by children up to three years of age with prolonged skin contact (longer than 30s) when used as intended) and EC-Regulation 1907/2006, Annex XVII No. 50.



Remark

Requirements acc. to AfPS GS 2019:01 PAK (Utilization for GS-mark from July 1st, 2020) and Regulation (EC) No. 1907/2006, Annex XVII No. 50

| Parameter | Category 1 | Category 2 | | Category 3 | | Limit value acc. to EC regulation 1907/2006, Annex XVII No. 50 | |
|---|-------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--|--|
| | | a. Use by children | b. other consumer products | a. Use by children | b. other consumer products | Toys, including activity toys, and childcare articles – Components rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use | Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use |
| Benzo[a]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | | |
| Benzo[e]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[a]anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[b]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[j]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[k]fluoranthene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Chrysene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Dibenzo[a,h]anthracene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | 0.5 | 1 |
| Benzo[ghi]perylene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | - | - |
| Indeno[1,2,3-cd]pyrene mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | - | - |
| Phenanthrene, Pyrene, Anthracene, Fluoranthene, mg/kg | < 1 – Sum | < 5 – Sum | < 10 – Sum | < 20 – Sum | < 50 – Sum | - | - |
| Naphthalene mg/kg | < 1 | < 2 | | < 10 | | - | - |
| Sum 15 PAH mg/kg | < 1 | < 5 | < 10 | < 20 | < 50 | - | - |
| Evaluation | pass | pass | - | pass | - | pass | - |

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END OF REPORT



JOGGING TRACKS

POLTRACK JOGGING TRACK

Elastic, seamless, flexible coloured flooring, ideal for jogging tracks.

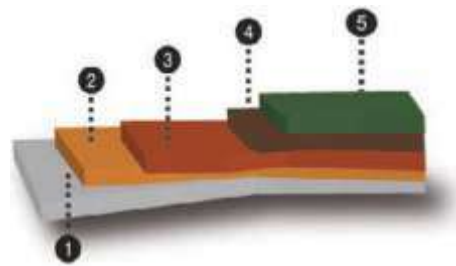
It consists of a shock-pad base of 2 layers, first layer is a base layer of **SBR** granules (granulometry 2-5mm or 3-5mm) and second layer a base of flexible, colored **EPDM** granules (0.5-1.5mm). Then follows a PU flexible pore filler coating, **POLYSPORT STUCCO 1050**, in 2 layers and a sealing PU, UV-resistant aliphatic top layer, **POLYSPORT 1052**, in two crossing layers.

Certified system by LABOSPORT Institute.



Steps:

1. **PU PRIMER 870 - Polyurethane primer.**
Applied by airless sprayer or brush.
2. **Mixture of PU BINDER 1118 and RECYCLED RUBBER 858** (in granulometry of 2-5mm or 3-5mm) applied by paving machine.
3. **Mixture of PU BINDER 1118 and EPDM 856** (in granulometry of 0.5-1.5mm) applied by paving machine.
4. **POLYSPORT STUCCO 1050 - Polyurethane, elastic, two-component pore filler.**
Used for sealing porous prefabricated subfloor of sports floorings such as **ISOPOL 854** or wet-pour cushion shockpads. Applied by flat trowel.
5. **POLYSPORT 1052 - UV-resistant, polyurethane, two-component, top coating for outdoor sports floorings.**
Applied, in two crossing layers by airless sprayer or a short haired mohair roller.



| Description | Consumption |
|---|--|
| PU PRIMER 870 - Polyurethane primer. | 0.2kg/m ² for 2 layers |
| BASE LAYER | |
| PU BINDER 1118 - Polyurethane binder. | 1.3kg/m ² for 13mm mixture |
| RECYCLED RUBBER 858 in granulometry of 2-5mm or 3-5mm. | 7.8kg/m ² for 13mm mixture |
| TOP LAYER | |
| PU BINDER 1118 - Polyurethane binder. | 1kg/m ² for 5mm mixture |
| EPDM 856 in granulometry of 0.5-1.5mm. | 5kg/m ² for 5mm mixture |
| SEALING LAYER | |
| POLYSPORT STUCCO 1050 - Polyurethane, elastic, two-component pore filler. | 1.5kg/m ² for 2 layers |
| TOP COATING | |
| POLYSPORT 1052 - UV-resistant, polyurethane, two-component, top coating for outdoor sports floorings. | 0.25kg/m ² for 2 layers |

POLTRACK JOGGING TRACK SYSTEM

Certified by Labosport Institute



Elastic, seamless, flexible coloured flooring, ideal for jogging tracks.

It consists of a shock-absorbent base of 2 layers. First layer is a base layer of **RECYCLED RUBBER 858**, SBR granules (granulometry 2-5mm or 3-5mm) and second layer a base of flexible, colored EPDM granules (0.5-1.5mm). Then follows a PU flexible pore filler coating, **POLYSPORT STUCCO 1050**, in 2 layers and a sealing PU, UV-resistant aliphatic top layer, **POLYSPORT 1052**, in two crossing layers.

Steps:

1. PU PRIMER 870 - Polyurethane primer.

Applied by airless sprayer or brush.

2. Mixture of PU BINDER 1118 and RECYCLED RUBBER 858 (in granulometry of 2-5mm or 3-5mm) applied by paving machine.

3. Mixture of PU BINDER 1118 and EPDM 856 (in granulometry of 0.5-1.5mm) applied by paving machine.

4. POLYSPORT STUCCO 1050 - Polyurethane, elastic, two-component pore filler.

Applied by flat trowel.

5. POLYSPORT 1052 - UV-resistant, polyurethane, two-component, top coating for outdoor sports floorings.

Applied, in two crossing layers by airless sprayer or a short haired mohair roller.

Preparation – Application

Applied only on dry asphalt and concrete surfaces (over 30 days old from date of placement) without rising humidity issues and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Priming of the surface with polyurethane primer, **PU PRIMER 870**, with an airless sprayer or brush. Consumption: 0,2 kg/m², 2 layers.

- After 5-12 hours and when the primer is almost dry but not completely, follows the application of the **mixture of PU BINDER 1118 and SBR granules** with paver machine in thickness of 13mm.
- Then, when the first cushion surface is dry, application with paver machine of a mixture of **PU BINDER 1118** with epdm granules **EPDM 856** in thickness of 5mm.
- Afterwards when the surface of epdm is dry, follows the application of polyurethane pore filler **POLYSPORT STUCCO 1050** with metal trowels to create a completely non porous surface. Consumption 1,5 kg/m², in 2 layers.
- Before the last **UV top layers** are applied, the surface needs the use of sandpaper machine to make a completely even surface without any irregularities or crumbs.
- After sanding the whole surface, follows the application of UV-resistant, aliphatic, two-component top coat, **POLYSPORT 1052**, in two cross layers by airless spray or by rollers. Consumption: 0,25kg/m².

Important Remarks

- During temperatures over 40 degrees, ideal time for the application of **POLTRACK JOGGING TRACK** is between 22:00 and 09:00 and the minimum bearing temperature during application and drying should be over 10°C.
- In case the second layer of PU pore filler is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
- In case the layer of PU top coat is applied after more than 24 hours of the application of the last layer of PU pore filler then the whole surface must be sanded by a special sanding machine. After that the PU top coat can be applied.
- In case the second layer of PU top coat is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
- The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours.

Substrate

Asphalt is the safer subfloor for sport floorings for sure and must be always preferred than concrete surfaces.

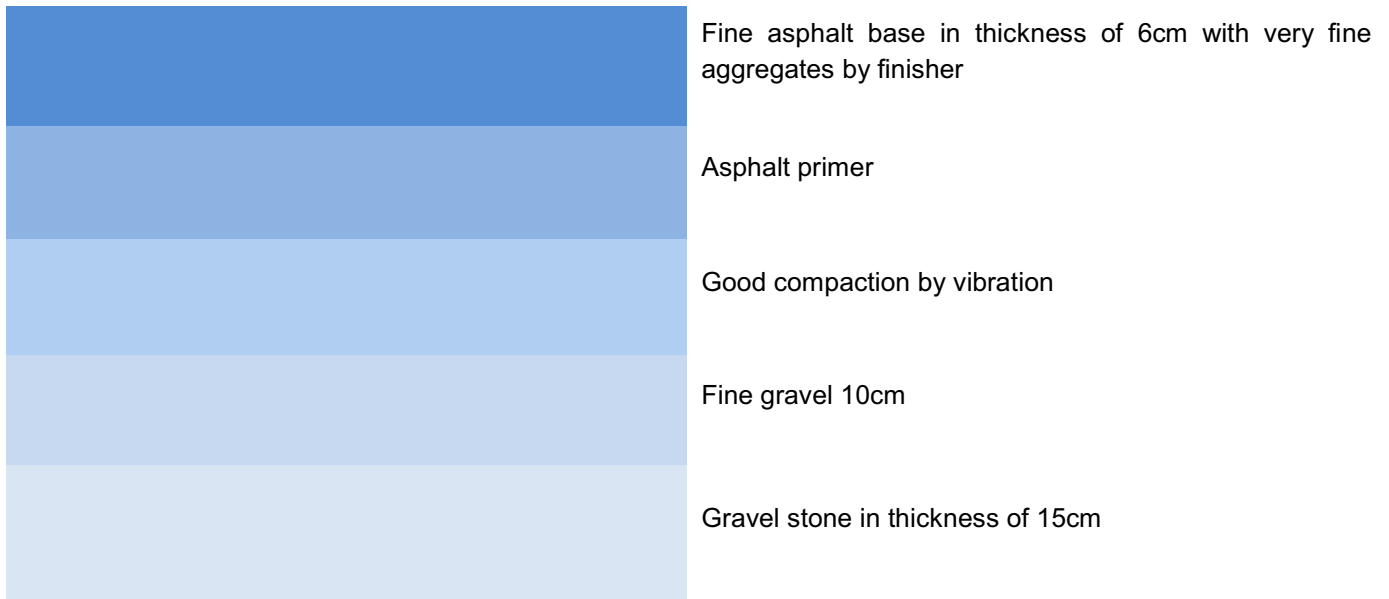
A. Asphalt Substrate

The asphalt must have a slope of 0.7-1% and must dry for at least 30 days so that all solvents from the asphalt can evaporate.

The asphalt sub-floor should be applied on well compacted 150mm road base sub-floor and asphalt should be laid in one layer (and not 2) in 6 to 8cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.

So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber flooring.

Asphalt Infrastructure



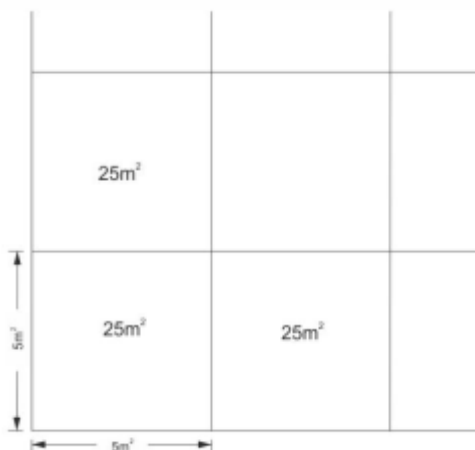
B. Concrete Surface

Concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.

Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open the pores accordingly and also a measurement by special instrument to measure humidity on the surface and in 10cm under the surface.

Generally concrete is a risky sub-floor and there may be problems with rising humidity, especially in areas where the sea level is really high and when the sea is close or in areas near greenery.

Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures. Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.



| | | |
|--------------------------------------|-------------------|------------------|
| <u>SUBSTRATE REQUIREMENTS</u> | Concrete quality | at least C20/25 |
| | Age: | at least 40 days |
| | Moisture content: | below 4% |

Tools:



Colors: Following colorchart.

This is a certified system by the Labosport.



The colors may vary slightly from the original due to digital representation.



The colors may vary slightly from the original due to digital representation.

PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT BETWEEN SUBFLOOR AND SPORTS SYSTEMS

GENERAL CHARACTERISTICS

POLYURETHANE PRIMER 870 is a clear, polyurethane-based, one-component primer, which is used as an adhesive component between the sub-floor and sport systems.

- Penetrates in depth.
- Ideal for old and new surfaces.

TECHNICAL DATA

| | |
|---|----------------------------|
| Basis: | one-component polyurethane |
| Appearance: | liquid |
| Color: | transparent |
| Viscosity: | 50 – 250 mPa s at 25°C |
| Density: | 0.9- 1.0 Kg/Lt |
| Temperature for the application and drying of the material: | 10 – 40°C |

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with **PU PRIMER 870** applied by airless sprayer equipment or brush, roller. The base layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while **PU PRIMER 870** is still a bit sticky. Curing takes place at ambient temperature by evaporation of the solvent and reaction with atmospheric moisture. High temperatures and moisture will shorten the cure time. **PU PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, wet-pour mixture of SBR and PU BINDER 1118 can be applied on sticky surface.
- The temperature should not fall below 10° C during curing.
- Opened drums should be used up quickly.
- The layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while the final layer of **PU PRIMER 870** is still sticky.
- **NOTE: Rain will cause the primer to lose its function! If the primer was affected by rain, the base layer should not be constructed! Instead, the sub floor has to dry and the primer application has to be repeated.**

CONSUMPTION

200-300 gr/m² depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

Brush and airless sprayer. Tools should be cleaned with a PU solvent immediately after use.

PACKAGING

Drums / Barrels.

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

REMARKS

- Working time of **POLYURETHANE PRIMER 870** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLYURETHANE PRIMER 870** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
-

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

PU BINDER 1118

POLYURETHANE BINDER

GENERAL CHARACTERISTICS

100% solids, aromatic, polyisocyanate-prepolymer, moisture-curing binder based on diphenylmethane diisocyanate. It is MDI based and solvent free and has low viscosity. It exhibits excellent adhesion to all rubber granules and gives a strong performance both in terms of tensile strength and durability.

It is mixed with **RECYCLED RUBBER 858** or **EPDM granules** for the creation of the elastic safety flooring **SAFEPOL MULTICOLOR** or other flexible rubber floorings, ideal for playgrounds, athletic tracks, schools etc. Combines and bonds RIM components, polyurethane granules and sponge particles. Also it can be used as lining for insulation and for pasting.

TECHNICAL DATA

| | |
|---|--------------------------|
| Density of mixture (25°C) | app. 1.08 – 1.18 Kg/Lt |
| Viscosity (25°C) | 4.000 - 8.000 mPa.s |
| Pot-life (25°C) | 30-75 min. |
| Application temperature | Min 10°C |
| Curing (25°C and %60 relative humidity) | After 24 hours it cures. |

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

Good, dry cleaning of the surface from dust and residues using vacuum cleaner and squeegees.

Can be used for kids playground, running tracks, sports grounds, walkways and offices.

Moulded in production: Rubber granules and binder are thoroughly mixed, taken into moulds, and then pressure is applied. 160 bar pressure, mold temperature of 130 degree gives reasonable results in 12 - 15 minutes. In molding applications, binder content should not fall below 5%.

On-site applications: **Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles etc (in case of asphalt or concrete).** The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers.
- Good mixing of the **PU BINDER 1118** and the **RECYCLED RUBBER 858**. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or by hand, if the applicator is experienced, with rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface).
- The application procedure for **SAFEPOL MULTICOLOR (PU BINDER 1118 and EPDM 856 mixture)** on top of asphalt or waterproof concrete directly is the same as for

SAFEPOL MIXTURE (the mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858**).

RATIO MIXTURE

- 16% **PU BINDER 1118** and 84% **RECYCLED RUBBER 858**, for sports flooring.
 - 14% **PU BINDER 1118** and 86% **RECYCLED RUBBER 858**, for playground flooring.
 - 17% **PU BINDER 1118** and 83% **EPDM 856**.
-

PACKAGING

220kg in barrels.

STORAGE

12 months in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

REMARKS

- Concrete humidity should not be above 4%, ambient humidity should be at least 40% and most 80%. To begin the application, must wait for the appropriate humidity.
 - Working time of **PU BINDER 1118** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **PU BINDER 1118** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
-

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

SBR RUBBER GRANULES 858

GENERAL CHARACTERISTICS

It can be used in sports facilities as infill in synthetic grass with the parallel use of round sand and also as one of the components in case of cast applied wet-pour systems for playground floorings or as shock-pad for sport subfloors in athletic tracks and sports fields.

Rubber granule is derived from car and truck tires. During processing, the tires are mechanically granulated, removing all metal and synthetic fibers, as well as any other foreign part contained in there with specially designed sieves, so as to produce a 99.99% clear rubber with high quality.

PROPERTIES

- 100% recyclable
- Long life
- Resistance to adverse weather conditions
- High shock absorbency and vibration damping
- High abrasion resistance

PREPARATION-APPLICATION

In sports facilities and playgrounds to ensure flexibility of surface and vibration absorption.

TECHNICAL CHARACTERISTICS

Granulometry 1-3mm

| | |
|------------------|---------------------------|
| DENSITY: | 0.48kg/cm ³ |
| SPECIFIC GRAVITY | 1.20+/- .05 (Water = 1.0) |
| HARDNESS | 60 |
| HUMIDITY(%) | <0.65 |
| ELASTICITY | 100% - No change |
| RESISTANCE | 113N/cm - Excellent |

PACKAGING

Packaging is available in big-bags -1 ton in following sizes:

| | |
|------------|------------|
| Grain size | 0,5-1,5 mm |
| Grain size | 0,5-2,5 mm |
| Grain size | 0.5-4.0 mm |
| Grain size | 2-8 mm |
| Grain size | 8-20 mm |
| Grain size | 80-50 mm |
| Grain size | 80-120 mm |

EPDM 856

RUBBER GRANULES

GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.8-2.5mm,1.0-3mm,1.0-4mm or others

PERFORMANCE OF SAMPLE 25%

| Test item | Performance |
|--|-------------|
| Tensile strength (Mpa) | >4.3 |
| Elongation at break (%) | >735 |
| Hardness (shore A) | 60-65 |
| Specific gravity (kg/cm ³) | 1.45 ± 0.05 |

PREPARATION-APPLICATION

EPDM 856 granules are basically used for wet pour colored playground floorings (granulometry 1-3mm), for flexible multipurpose outdoor courts in 10-20 mm, SYSTEM COLORFLEX, and in applications of running track system such as POLTRACK SANDWICH SYSTEM (granulometry 1-3mm) and POLTRACK SPRAYCOAT SYSTEM (granulometry 0.5-1.5 mm).

Can be used also as infill of artificial synthetic turf or in the production of epdm rubber tiles or even loose lay and around swimming pools as a flexible flooring.

REMARKS

- It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance top coat **POLYSPORT XP 1069**, which gives a strong UV protection and doesn't allow the change of color to occur. **POLYSPORT XP 1069** is produced in all EPDM colour range and needs to be applied with 0,4 kg/m² in two crossing layers by airless sprayer or rollers.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc will alter.
- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the PU-binder according to the type and color of the EPDM rubber granules.

POLYSPORT STUCCO 1050

POLYURETHANE, ELASTIC, TWO-COMPONENT PORE FILLER

GENERAL CHARACTERISTICS

POLYSPORT STUCCO 1050 is elastic solvent-free, two component polyurethane based sealant for outdoor sport surfaces.

POLYSPORT STUCCO 1050 has very good filling capacity and thixotropic properties. It has low fluidity feature with its filler structure can be easily applied. It provides strong and elastic filling after the reaction.

TECHNICAL DATA

| | |
|---|-----------------------------|
| Mixing Ratio | 90.8 : 9.2 (By weight) |
| Density of mixture (25°C) | 1.69-1.79 Kg/lt |
| Viscosity of mixture (25°C) | 40.000-55.000 mPa s at 25°C |
| Pot-life (25°C) | 20-30 min at 25°C |
| Application temperature | Min 10 – 40 °C |
| Curing (25°C and %60 relative humidity) | After 24 hours |
| Color | Beige |

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues using vacuum cleaner and squeegees.
- It can be applied directly on top of surfaces, on a cast-in-situ cushion base layer of wet pour (SBR rubber granules mixed with polyurethane binder) or prefabricated roll, which have to be dry, load bearing, clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants.
- The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring the contents of the B component (hardener) should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 20-30 minutes of mixing at 25°C The surface must be dry and clean from dust and residues. Application is done by flat metal trowel.

CONSUMPTION

- 1.25 - 3.7 kg/m², depends on the porosity of the substrate.

PACKAGING

250 kg barrels and drums.

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum

temperature 5°C and maximum temperature 30°C.

REMARKS

- Substrate must be dry, clean, and free from dust, grease and oil. Application must be done between 10°C - 40°C.
 - In case the second layer of PU pore filler is applied after more than 24 hours of the application of the first one then the whole surface must be sanded by a special sanding machine. After that the second layer can be applied.
-

CAUTION

Harmful if swallowed. Seek immediately medical attention. Rubber gloves and safety glasses with side guards should be worn.

For more information consult the safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

POLYSPORT 1052-SEMIMAT

UV-RESISTANT, POLYURETHANE-BASED, TWO-COMPONENT, SEMIMAT, FINISH ALIPHATIC COATING

GENERAL CHARACTERISTICS

POLYSPORT 1052-SEMIMAT is a polyurethane, two-component, solvent-based, semi-mat finish aliphatic coating for outdoor sports surfaces.

- It is applied as a final, sealing layer on top of playground floorings made of **SBR rubber granules** plus **PU binder** mixture, or **EPDM** plus **PU binder** mixture, on safety tiles and on top of polyurethane outdoor sports systems such as **POLYFLEX PU-EX**.
- It is UV-resistant and thus absolutely suitable for outdoor surfaces, including running tracks, for UV-protection in case of sensitive, light colors such as blue, orange, green.
- Ideal for protection of EPDM rubber flooring.

TECHNICAL DATA

| | |
|-------------------------|--------------------|
| Mixing Ratio (colored) | 85 :15 (By weight) |
| Density (25°C) | 1.38-1.48 kg/lt |
| Viscosity (25°C) | 1.000-3.500 mPas |
| Application Temperature | 15 – 40 °C |
| Curing (25°C) | 9-12 hours |
| Color | KDF colorchart |

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- Good, dry cleaning of the surface from dust and residues using vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 15° C during application and curing of the materials while relative humidity does not exceed 75%.
- The A component should be thoroughly stirred to incorporate any slight separation, while continuing stirring, the hardener (B component) should be added. Continue stirring until a homogeneous mix is obtained.
- The application is done by airless sprayer or short-haired mohair roller in 2 crossing layers.

CONSUMPTION

200-250 gr/m² on polyurethane floorings

400-500 gr/m² on running tracks or EPDM surfaces.

Apply two layers at least.

APPLICATION TOOLS

Short-haired mohair paint roller or airless sprayer. Tools should be cleaned with **PU SOLVENT** immediately after use.

STORAGE

12 months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C (avoid sunlight).

REMARKS

- Working time of **POLYSPORT 1052-SEMIMAT** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers, containing **POLYSPORT 1052-SEMIMAT** must be avoided, as contact with atmospheric moisture could possibly cause clouding of the product.
 - After hardening **POLYSPORT 1052-SEMIMAT** is completely safe for health.
 - The second layer of **POLYSPORT 1052-SEMIMAT** has to be applied strictly within 24 hours, depending on the temperature and humidity (European conditions) **or within 3-6 hours (GCC high-temperature conditions)** in order to cover the surface swiftly and protect it from unwanted weather or other adverse conditions (sand dust, accumulated dirt or foreign matter etc.). In case the 24-hour limit (Europe) or the 3-6-hour limit (GCC) is surpassed or weather or other adverse conditions interfere between layers at any time, the surface might need sanding again to restore smoothness and cleanliness before applying subsequent layers of the aliphatic top coat.
-

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the safety data sheet.

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CLEANING AND MAINTENANCE MANUAL FOR :

-OUTDOOR SPORTS FLOORING

-PLAYGROUND FLOORINGS

Introduction

Outdoor sports floorings and playground surfaces are made of extremely durable polymers, designed to withstand extreme climate conditions and intense use. However for the best maintenance of the rubber and sport surface a regular check (once in 6 months) is required and the maintenance of the surface is necessary to preserve the suitability of the surface (sand pits, areas of vegetation) which could leave algae, moss and leaf deposits.

The installer's guarantee will usually be conditional on the recommended maintenance requirements being carried out with due diligence.

Maintenance

Maintenance procedures are necessary to preserve the lifetime of the surface and to ensure that:

- The Surface is kept clean.
- The Surface is safe for intense diverse use and all types of users.
- The facility looks attractive.

These objectives are achieved by :

- Sweeping/scraping/removing leaves and other debris and foreign matter from the surface.
- Regularly washing the surface to remove contaminants such as grime, grease, algae, moss, sand, foreign matter etc.
- Applying suitable treatments of moss-killer and/or algaecide
- Periodically removing weed growth from the perimeter kerb lines.

Maintenance Equipment

Leaves, pine needles and other detritus should not be allowed to remain on the surface for any length of time. If this does happen, they rapidly rot down, forming a contaminating "skin" on the surface and providing a growth media for algae and moss.

A mechanical leaf-sweeper or vacuum cleaner is ideal for removing vegetable matter and dirt. Restricted areas may have to be cleaned by hand.

The equipment should be well maintained and carefully operated to avoid contamination of, or physical damage to, the surface. Spillage of fuel or lubricating oil will damage the surface.

The pressure loading on the surface as well as the friction and shearing loads have to be kept to a minimum to prevent damage to the surface. Large pneumatic tires and soft brushes along with careful operating of the machinery, is recommended to avoid any damage on the surface.

A mechanical leaf-sweeper or vacuum cleaner is ideal for removing vegetable matter and dirt. Restricted areas may have to be cleaned by hand.

The equipment should be well maintained and carefully operated to avoid contamination of, or physical damage to, the surface. Spillage of fuel or lubricating oil will damage the surface.

The pressure loading on the surface as well as the friction and shearing loads have to be kept to a minimum to prevent damage to the surface. Large pneumatic tires and soft brushes along with careful operating of the machinery, is recommended to avoid any damage on the surface.

At least once a year it is advisable to wash the surface with low-pressure jetting apparatus.

Polymeric surfaces can withstand low pressures without suffering damage.

Note that no aggressive chemical cleaning agents (chlorine or acid-based) should be used; normal neutral market detergents are adequate.

Prevention of damages

To ensure maintaining the surfaces to a high standard, restrictions should be imposed on the use of the surface.

- In general no vehicles should be permitted to drive on the outdoor sports/playground surface.
- No chemicals, oils, fuel or solvents should be allowed on the surface.
- No fireworks or cigarettes or inadequate shoes should be allowed on the synthetic surface.

Damages and renovation

The lifetime of an outdoor sports/playground surface depends on its quality, usage and level of maintenance. In general a normal outdoor sports/playground surface used intensively will last 7 to 12 years (depending on the system) before renovation is required. Renovation should be carried out periodically to prevent the total damage of the surface, which would necessitate complete renewal.

Renovation must be carried out by professional and skilled contractors with thorough knowledge of this type of work

There are different procedures for the renovation of a surface:

- Complete renewal by replacing the worn-out surface with a new sports flooring system.
- Re-topping or sealing with adequate polyurethane or acrylic materials.
- Partial re-topping in particular worn-out areas.

Information contained in this document is of general nature and is given in good faith. As the state of the surface and the use and application of the various cleaning products, is out of our control, our advice for individual cases, verbal, written or based on tests, does not exempt the applicator from the testing the suitability of the cleaning products and their applications.

The above maintenance guide refers to **the below KDF systems:**

-SYSTEM SPORTFLOOR

-SYSTEM FLEXFLOOR

-SYSTEM POLYFLEX AEL EX

-SYSTEM POLYFLEX WET POUR EX

-SYSTEM POLYFLEX PU EX

-SYSTEM POLYFLEX WET POUR AEL EX

-SYSTEM SMARTFLOOR

-SYSTEM SAFEPOL

-SYSTEM SAFEPOL COLORED

-SYSTEM SAFEPOL WITH TPV GRANULES

-SYSTEM SAFEPOL SANDPROOF

-SYSTEM QUICKLAWN PLAYGROUND SAFEPOL

-SYSTEM QUICKLAWN PLAYGROUND SAFEPOLSANDPROOF

-SYSTEM COLORFLEX

-SYSTEM SPORTGROUND-EX

-SYSTEM POLTRACK SPRAYCOAT

-SYSTEM POLTRACK SPRAYCOAT SEALED

- SYSTEM POLTRACK SANDWICH**
- SYSTEM POLTRACK SANDWICH IN ROLLS**
- SYSTEM POLTRACK FULL PU**
- SYSTEM POLTRACK ACRYLIC**
- SYSTEM POLTRACK JOGGING TRACK**
- SYSTEM POLTRACK PU JOGGING TRACK**
- SYSTEM POLTRACK JOGGING TRACK SBR**
- SYSTEM POLTRACK JOGGING TRACK SHOCK-PAD - EPDM**
- SYSTEM POLTRACK JOGGING TRACK SHOCK-PAD - ISOPOL**
- SYSTEM POLTRACK EQUINE**

CERTIFICATES OF KDF Ltd



ISO KDF Ltd



POLTRACK SPRAYCOAT



POLTRACK SANDWICH



POLYFLEX AEL-EX



FLEXFLOOR-EX



SPORTFLOOR-EX



SPORTFLOOR-EX FAST



POLTRACK EQUINE



BADMINTON POLYFLEX PU

CERTIFICATES OF KDF Ltd



POLYFLEX PU



SPORTGROUND-EX



POLTRACK JOGGING TRACK



FIBA POLYFLEX PU



SAFEPOL



SAFEPOL



EPDM 856



SAFEPOL SANDPROOF



SAFEPOL SANDPROOF

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PLAYPREM



POLTRACK FULL-PU



PU GRASS 149



PAH TEST REPORT
PU BINDER 1118



PAH TEST REPORT
PU BINDER 1125 AL



PAH TEST REPORT
EPDM 856



PAH TEST REPORT
PU BINDER plus EPDM 856