

MARMOR STONE CARPET AGGREGATED DECORATIVE FLOORING



KDF LTD (www.kdf.gr) is one of the most dynamic and export-oriented Greek companies (currently activated in more than 70 countries in 4 continents), producing and trading a wide range of building materials and complete systems (industrial, decorative and sports flooring, waterproofing materials, strengthening and repairing materials, concrete and mortar additives, paints and varnishes).

KDF goes far beyond trade, providing consultancy in marketing and technical support all the way, from the costing till the finalization of the project. Operating under the requirements of **ISO 9001/2015** (and many others like **ISO 14001/2015**, **ISO 50001/2018**, **ISO 27001/2013** and more) for production, trade and 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 North Europe to Middle East till South America, 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.

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.

We invite you to discover a world of industrial and decorative flooring expertise

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PHOTOGRAPHS OF PROJECTS







MARMOR STONE CARPET SYSTEM

Outdoor and Indoor Decorative Flooring



Consists of hard quartz aggregates and two-component polyurethane or epoxy resins. Grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger. For interior surfaces it is recommended the use of epoxy-based **MARMOR STONE CARPET**. Recommended for hotels, shopping centers, swimming pool surroundings, city squares and generally areas where high mechanical resistance and aesthetics are required.

Preparation – Application

Applied only on dry, smooth concrete surfaces (over 1 month old), protected from arising humidity 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.

- Treatment of the surface with a mosaic machine, with sandblast or rotor machine, depending on the thickness of the final coating.
- > Good, dry cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with 807 PU ALIPHATIC PRIMER in two or more layers. Consumption: 200-400 gr/m², depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the industrial covering, in order to ensure proper adhesion.
- When the polyurethane primer is still sticky and before it gets dry completely, we apply the resins of MARMOR FLOOR mixed with the desired coloured or natural aggregates.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. 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 uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed.
- The application is performed by a flat trowel by pressing and laid until applied to the desired thickness (from grain thickness to 1 cm).
- After hardening of the material (approx. 12 hours depending on the ambient temperature) and within 24 hours, follows the application of 807 PU TOP COATING VARNISH (consumption: 300-600 gr/m²) in order for the surface to become rigid and to avoid any loose grains.



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

807 PU ALIPHATIC PRIMER

POLYURETHANE-BASED, TRANSPARENT, TWO COMPONENT, PRIMER, USED AS PRIMER COMPONENT FOR POLYURETHANE-BASED INDUSTRIAL COATINGS

<u>GENERAL</u> <u>CHARACTERISTICS</u> **807 PU ALIPHATIC PRIMER** is a clear, polyurethane-based, two-component resin, which is used as an adhesive component between the sub-floor and all the polyurethane-based industrial coatings.

Ideal for old and new surfaces.

Moisture content:

- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.

TECHNICAL DATA	Basis:	two-component polyurethane resin
	Appearance:	liquid
	Viscosity:	50-400 mPa•s at 25°C
	Density:	0,9 - 1,0 kg/lt
	Mixing proportion (A:B):	86:14 by weight
	Final strength:	after 7 days at 25ºC
	Walkability:	after 2 days at 25ºC
	Adhesive strength:	>3 N/mm ² (breaking of concrete)
	Colors:	transparent
	Temperature for the application and drying of the material:	10 – 38°C
SUBSTRATE	Concrete quality:	at least C20/25
KEQUIKEMEN IS	Age:	at least 30 days

PREPARATION-APPLICATION

Applied only on dry surfaces. Protected from arising humidity 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.

below 4%

- **Good**, **dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. 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 uniform dispersion of the hardener.
- Priming of the surface with **807 PU ALIPHATIC PRIMER** in two or more layers. Consumption: 200-400 gr/m², depending on the absorption of the underlay. It is recommended that the last layer should be applied in sections each time, right before the application of the industrial covering (wet-on-wet procedure), in order to ensure proper adhesion.

Apply **807 PU ALIPHATIC PRIMER** until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary. The next layer follows the other before the previous starts to dry.

CONSUMPTION	200-400 gr/m ² , in two or more layers depending on the type, absorbency and roughness of the underlay.
APPLICATION TOOLS	Airless sprayer, paint rollers, brushes. Tools should be cleaned with solvent immediately after use.
PACKAGING	Supplied in drums of 15 Kg and barrels of 190 Kg.
<u>STORAGE</u>	One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.
REMARKS	 Working time of 807 PU ALIPHATIC PRIMER decreases when ambient temperature rises. Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product. Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours. Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested. It <u>cannot be applied in thickness for filling cracks or holes</u>. In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and grinded prior to application of a new layer. The cement subfloor must be thoroughly cleaned and smooth, moisture content below 4%.
<u>CAUTION</u>	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.

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MARMOR STONE CARPET

DECORATIVE FLOORING

GENERAL CHARACTERISTICS

MARMOR STONE CARPET is a three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble and polyurethane or epoxy resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for exterior use with the usage of polyurethane, UV resistant resins.
- For interior surfaces it is recommended the use of **epoxy-based MARMOR STONE CARPET**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for malls, squares, hotels, shopping centers, swimming pools and generally areas where high resistant and beauty is demanded.

TECHNICAL	Basis:	two-component polyurethane resin, aggregates
	Appearance:	viscous paste
	Colors:	available in 16 colors
	Viscosity(A+B):	900 - 3500 mPa∙s at 25ºC
	Density (A+B):	0,95 - 1,05 Kg/lt
	Mixing proportion (A:B):	80,6:19,4 by weight
	Mixing proportion (A+B:C):	10:90 by weight
	Granulometry (C):	2000 μm – 4000 μm
		4000 μm – 6000 μm
	Final strength:	after 7 days at 25ºC
	Temperature for the application and	10 – 38°C
	drying of the material:	
	Walkability:	after 2 days at 25ºC
	Adhesive strength:	>3 N/mm ² (breaking of concrete)
<u>SUBSTRATE</u> REQUIREMENTS	Concrete quality: Age: Moisture content:	at least C20/25 at least 30 days below 4%
PREPARATION- APPLICATION	 Applied only on dry surfaces. Protect that might prevent bonding e.g. dus the application depends on the right prevent bonding of the surface with a modepending on the thickness of the f Caution must be taken so that tem remains above 10°C during applic environment humidity does not excert Good, dry cleaning of the surface is squeegees. Priming of the surface with 807 Pl gr/m², depending on the absorption Following MARMOR STONE CARIER. 	t , loose particles, grease etc. The success in eparation of the underlay and use of the material. saic machine, with sandblast or rotor machine, final coating. uperature of the substrate as well as ambient air eation and curing of the materials while relative eed 75%. from dust and residues with vacuum cleaner and U ALIPHATIC PRIMER . Consumption: 200-400 of the underlay. PET is applied.

	 Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. 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 uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed. The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm). After hardening of the material (approx. 12 hours depending on the ambient temperature) and within 24 hours, follows the application of 807 PU TOP COATING ALIPHATI VARNISH (consumption: 300-600 gr/m²) in order for the surface to become rigid and to avoid any loose grains.
CONSUMPTION	Suggested: 6 Kg/m², for grain thickness 0,7-1,2mm. 12 Kg/m², for grain thickness 2-4mm.
APPLICATION TOOLS	Trowels, rectangular stainless spatulas. Tools should be cleaned with solvent immediately after use.
PACKAGING	Supplied in packages of 28 kg (two drums, one bag). Components A,B and C have the fixed weight proportion.
STORAGE	1 year in original unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.
REMARKS	 Working time of MARMOR STONE CARPET decreases when ambient temperature rises.
	 Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
	 Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
	 Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
	 In case old floors are going to be laid they must be thoroughly grinded and also the same procedure must be followed in case a long period of time interferes between successive layers, prior to application of a new layer.
	 It is recommended that tools are cleaned periodically with POLYURETHANE SOLVENT during application of MARMOR STONE CARPET for a smooth final surface.
	• After hardening, MARMOR STONE CARPET is completely safe for health.
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.

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MARMOR FLOOR ALIPHATIC RESINS FOR OUTDOOR USE

GENERAL

MARMOR FLOOR ALIPHATIC RESINS is polyurethane-based, for outdoor use as two-

CHARACTERISTICS	 component resin to be mixed with hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble chips for the creation of MARMOR FLOOR 804, decorative flooring. Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting health standards. Suitable for exterior use with the usage of polyurethane, UV-resistant resins. For interior surfaces, without contact with the day light, it is recommended the use of epoxybased MARMOR FLOOR EPOXY RESINS. Resistant to acid solutions, alkalis, oil, grease, wastes. Resistant to mechanical stresses, wearing from friction and chemical effects. It is ideal for malls, squares, hotels, shopping centers, swimming pools, corridors and generally areas where high resistant and beauty is demanded. Can be used as primer between the subfloor and the polyurethane mortar. Combines perfectly with MARMOR PASTE 404 for a uniform appearance for floors and walls. 		
TECHNICAL DATA	Basis:	two-component polyurethane resin	
	Appearance:	clear liquid	
	Viscosity(A+B):	900 - 3500 mPa∙s at 25ºC	
	Density (A+B):	0,95 - 1,05 Kg/lt	
	Mixing proportion (A:B):	80,6-19,4 by weight	
	Final strength:	after 7 days at 25ºC	
	Temperature for the application and drying of the material:	12– 38°C	
	Walkability:	after 2 days at 25°C	
	Adhesive strength:	>3 N/mm ² (breaking of concrete)	
SUBSTRATE	Concrete quality:	at least C20/25	
REQUIREMENTS	Age:	at least 30 days	
	Moisture content:	below 4%	
PREPARATION- APPLICATION	 Applied only on dry surfaces. Protected fro might prevent bonding e.g. dust, loose partie depends on the right preparation of the underlay Grinding of the surface with a mosaic mach on the thickness of the final coating. Caution must be taken so that temperature above 10°C during application and curing of does not exceed 75%. 	m arising humidity and free of materials that cles, grease etc. The success in the application y and use of the material. hine, with sandblast or rotor machine, depending e of the substrate as well as ambient air remains the materials while relative environment humidity	

	 Good, dry cleaning of the surface from dust and residues with vacuum cleaner and squeegees. Priming of the surface with 807 PU ALIPHATIC PRIMER. Consumption: 200-400 gr/m², depending on the absorption of the underlay. Following MARMOR FLOOR 804, a three-component decorative flooring, is applied. Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. 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 uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed. The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm). After the total hardening of the material follows the application of 807 PU TOP COATING ALIPHATIC VARNISH (consumption: 300-400gr/m²), with an airless sprayer, in order for the surface to become rigid and to avoid any loose grains.
APPLICATION TOOLS	Trowels, rectangular stainless spatulas. Tools should be cleaned with solvent immediately after use.
PACKAGING	Supplied in packages of 28 kg (two drums, one bag). Components A, B and C have the fixed weight proportion.
<u>STORAGE</u>	1 year in original unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.
REMARKS	 Working time of MARMOR FLOOR ALIPHATIC RESINS decreases when ambient temperature rises and ratio of the resins to aggregates also decreases the more granulometry of the aggregates raises. Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product. Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours. Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested or the usage of our special primer damp barrier is strongly suggested for surfaces with trapped humidity. In case old floors are going to be laid they must be thoroughly grinded and also the same procedure must be followed in case a long period of time interferes between successive layers, prior to application of a new layer. It is recommended that tools are cleaned periodically with POLYURETHANE SOLVENT during application of MARMOR FLOOR 804 for a smooth final surface. After hardening, MARMOR FLOOR 804 is completely safe for health.
<u>CAUTION</u>	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.

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807 PU TOP COATING ALIPHATIC VARNISH

 GENERAL
 807 PU TOP COATING ALIPHATIC VARNISH is polyurethane-based, anti-dust, transparent, two-component resin UV- resistant resin.

 • Creates an easier -to-clean indoor or outdoor floorings.

- Ideal for old and new surfaces, for light and middle circulation such as industrial floorings, mosaics, cement surfaces, workshops, and storehouses. Suitable even for metallic surfaces and for painting swimming pools. Ideal to be used also over stone carpet flooring to strengthen the final surface and decrease the absorbency of the flooring.
- · Provides permanent protection from U.V. radiation.
- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Offers high mechanical resistance and chemical protection against acid, alkalis, oil, and grease if the final surface has a smooth, non-porous finish.
- · Penetrates in depth, protects and hardens old absorbent cement surfaces.
- · It can be easily repaired locally if necessary.

TECHNICAL DATA	Basis:	two-component polyurethane resin
	Appearance:	liquid
	Viscosity:	100-450 mPa⋅s at 25°C
	Density:	$0,94 \pm 0,001$ kg/lt
	Mixing proportion (A:B):	86:14 by weight
	Final strength:	after 7 days at 25ºC
	Walkability:	after 2 days at 25ºC
	Adhesive strength:	>3 N/mm ² (breaking of concrete)
	Colors:	transparent
	Temperature for the application and drying of the material:	10 – 38°C
SUBSTRATE	Concrete quality:	at least C20/25
REQUIREMENTS	Age:	at least 30 days
	Moisture content:	below 4%

PREPARATION-APPLICATION

Applied only on dry surfaces. Protected from arising humidity 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.

- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in

	fixed weight proportions. 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 uniform dispersion of the hardener.
	 Then application of two or more layers with 807 PU TOP COATING ALIPHATIC VARNISH undiluted. The last layer is applied, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary until the surface is shiny. The next layer follows the other after the previous dries, within 6-12 hours depending on the ambient temperature and not more than 24 hours. The number of layers vary from one surface to another depending on the absorbency.
CONSUMPTION	300-600 gr/m ² , in two or more layers depending on the type, absorbency and roughness of the underlay.
APPLICATION TOOLS	Airless sprayer.
PACKAGING	Supplied in packages of 5kg and 15 kg (two drums). Components A and B have the fixed weight proportion.
STORAGE	One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.
<u>REMARKS</u>	 Working time of 807 PU TOP COATING ALIPHATIC VARNISH decreases when ambient temperature rises.
	 Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
	 Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
	 Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
	It cannot be applied in thickness for filling cracks or holes.
	 In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and grinded prior to application of a new layer.
	 After hardening 807 PU TOP COATING ALIPHATIC VARNISH is completely safe for health.
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.

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ISO QUALITY MANAGEMENT ISO ENVIROMENTAL MANAGEMENT



POLTRACK SANDWICH



POLTRACK FULL-PU



POLTRACK ROLL-SANDWICH



POLYFLEX AEL-EX





POLTRACK FULL-PU







POLTRACK JOGGING TRACK



POLYFLEX PU-BADMINTON



SPORTFLOOR-EX FAST



POLYFLEX PU



EPDM 856



SPORTGROUND-EX



POLYFLEX PU - FIBA



SAFEPOL

TW HELLAS



SAFEPOL COLORED







PAH FREE TEST REPORT **PU BINDER 1125AL**



PAH FREE TEST REPORT EPDM 856



POLTRACK EQUINE

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intertek





Anno 1994



SAFEPOL SANDPROOF



PAH FREE TEST REPORT PU BINDER 1118 plus EPDM 856

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	Forth, May 11/
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	
a menury spin	
For the level results please refer to need pages	
Scienter-Concurse Sando Rodolf Tel. + 68 TET 78271 E Nil Aleith Nil Aleith Gene/Malalain Wildeburger Rodo TDJ Ten. + 68 TET 78271 E Scienter-Scientific Aleith, 1988 TETE Gene/Malalain Wildeburger Rodo TDJ Ten. + 68 TET 78271 E Scienter-Scientific Aleith, 1988 TETE Gene/Malalain Wildeburger Rodo TDJ Tet. + 88 TETE 7827 Scienter-Scientific Aleith, 1988 TETE Gene/Malalain TETER REFORM No. / CELEBELT/R271 TETER REFORM No. / CELEBELT/R271 Gene/Malalain Scienter-Scientific Aleith, 1988 TETE	· (r





PU GRASS 149



COLORFLEX EN 14877



AQUASOFT-EX ANTIBACTERIAL ACTIVITY



AQUASOFT-EX EN 14877

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LADVARIANT ANALTSIS REPORT
Sample Reference Aquasoft EX
Report Number 12807/7336
Report Status Final
Insue Date 16/01/2023
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 This super's an effected in the Calent and (perc) value labelia anopy no expendentially unbears to the Parlies in when this report, or any perchannel, in mathic locate, Any and percy that any and the superior at the annumer's relation of the Calenter and orders the report status. In Vitra', This super study on the superior and the annumer's program underscription (percent) percent.
4. Mat al tonh serbal and are solition are surger of KE USER formulation. 5. Convents and optimes are as with the surger of an XER 2000 (formulation.

AQUASOFT-EX UVA & WATER PERMEABILITY



AQUASOFT-EX ASTM F925-13