

POLYBETON PROTECT SHINY

POLYURETHANE-BASED, TWO-COMPONENT, SHINY PROTECTIVE FINISH

GENERAL CHARACTERISTICS

POLYBETON PROTECT SHINY is a clear, impregnating sealing material applied by roller or spraying device on the treated concrete as the final stage for stabilizing, protecting and waterproofing the concrete from adverse weather conditions and other external factors. Applied in two layers.

- It is applied as the final, sealing layer on concrete surfaces, especially for finishing the **POLYBETON** exposed-aggregates system, after the treatment of the concrete surface with the special surfactant retarder POLYBETON REVEAL 879 and the subsequent rinsing with water under pressure
- Applied by spraying, rollers or suitable brushes
- Provides a shiny surface with 100% waterproofing efficiency and exceptional resistance in abrasion and various chemical agents.
- Does not alter the strength values of the concrete
- It is UV-resistant and thus suitable for both indoor and outdoor surfaces.

TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	liquid
Colors:	transparent, light and dark blue, light and dark gray, Indian red, ochre and after request for orders more than 300kg.
Viscosity:	180 ± 3 mPa·s at 23°C
Density:	1,075 ± 0,001 gr/cm ³
Mixing proportion (A:B):	75:25 by weight

Final strength:	after 7 days at 23 ⁰ C
Walkability:	after 2 days
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Temperature for the application and drying of the material:	12 – 35°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 28 days
Moisture content:	below 4%

PREPARATION-APPLICATION

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
- Application of **POLYBETON SYSTEM** is carried out on fresh concrete before it dries. The conventional thicknesses are recommended for the concrete substrate (15-20cm for new concrete slab or 8cm for concrete screed on top of existing reinforced concrete infrastructure). After the substrate is laid, **POLYBETON REVEAL 879** is sprayed on the whole surface with consumption 200-300 gr/m². Then the surface is thoroughly rinsed with water under pressure within the next 5-24 hours, depending on the ambient temperature and the type of concrete (C 16/20, C 20/25, grey or white).
- After the surface dries out, **POLYBETON PROTECT SHINY** is applied by brush or spraying device with consumption 300 gr/m² for stabilizing and waterproofing of the final surface

It is necessary to form a grid of joints on the floor (with sides 5X4m or 5X5m), which are subsequently sealed with a special polyurethane mastic

*** POLYBETON SYSTEM is not recommended for concrete class lower than C16/20

CONSUMPTION

Approx. 0.3 kg/m².

APPLICATION TOOLS

- Spraying or suitable brushes
- Tools should be cleaned with solvent immediately after use.

PACKAGING

Supplied in packages of 5kg and 15 kg (two drums). Components A and B have the fixed weight proportion.

KDF - Kataskeves Dapedon LTD

e : exports@kdf.gr w : www.kdf.gr

5 Koromila str, 54645, Thessaloniki, Greece

t / f : 0030 2310 829598, t : 0030 2310 683660



STORAGE

Six months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 28 °C.

REMARKS

- Working time of **POLYBETON PROTECT SHINY** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers containing **POLYBETON PROTECT SHINY** must be avoided as contact with atmospheric moisture might result in skinning or altering of the product's physical-chemical properties.
 - All surfaces should be thoroughly cleaned from dust and residues prior to each application.
 - After hardening **POLYBETON PROTECT SHINY** is completely safe for health.
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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.

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POLYBETON PROTECT M880

GENERAL CHARACTERISTICS

POLYBETON PROTECT M 880 is a clear, impregnating sealing material applied by roller or spraying device on the treated concrete as the final stage for stabilizing, protecting and waterproofing the concrete from adverse weather conditions and other external factors. Applied in two layers.

- It is applied as the final, sealing layer on concrete surfaces, especially for finishing the **POLYBETON** exposed-aggregates system, after the treatment of the concrete surface with the special surfactant retarder **POLYBETON REVEAL 879** and the subsequent rinsing with water under pressure
 - Applied by spraying or suitable brushes
 - Provides a matt surface with 100% waterproofing efficiency and exceptional resistance in abrasion and various chemical agents.
 - Does not alter the strength values of the concrete
- It is uv-resistant and thus suitable for both indoor and outdoor surfaces.

TECHNICAL DATA

Basis:	one-component silicone-based
Appearance:	liquid
Colors:	clear
Viscosity:	1050 ± 100 mPa•s at 23°C
Density:	1,150 ± 0,010 gr/cm ³
Temperature for the application and drying of the material:	15 – 25°C

**PREPARATION -
APPLICATION**

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
- Application of **POLYBETON SYSTEM** is carried out on fresh concrete before it dries. The conventional thicknesses are recommended for the concrete substrate (15-20cm for new concrete slab or 8cm for concrete screed on top of existing reinforced concrete infrastructure). After the substrate is laid, **POLYBETON REVEAL 879** is sprayed on the whole surface with consumption 200-300 gr/m². Then the surface is thoroughly rinsed with water under pressure within the next 5-24 hours, depending on the ambient temperature and the type of concrete (C 16/20, C 20/25, grey or white).
- After the surface dries out, **POLYBETON PROTECT M 880** is applied by brush or spraying device with consumption 300 gr/m² for stabilizing and waterproofing of the final surface

It is necessary to form a grid of joints on the floor (with sides 5X4m or 5X5m), which are subsequently sealed with a special polyurethane mastic

- *** POLYBETON SYSTEM is not recommended for concrete class lower than C16/20

CONSUMPTION

- Approx. 0,3 kg/m².

**APPLICATION
TOOLS**

- Spraying or suitable brushes
- Tools should be cleaned with solvent immediately after use..

PACKAGING

Supplied in 15 kg drums.

STORAGE

Six months in unopened containers in dry places with minimum temperature 5°C.

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REMARKS

- Working time of **POLYBETON PROTECT M 880** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYBETON PROTECT M 880** must be avoided as contact with atmospheric moisture might result in skinning or altering of the product's physical-chemical properties.
- All surfaces should be thoroughly cleaned from dust and residues prior to each application.
- After hardening **POLYBETON PROTECT M 880** 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.

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POLYBETON REVEAL 879

POLYBETON REVEAL 879 WATER-BASED, SURFACTANT RETARDER

GENERAL CHARACTERISTICS

POLYBETON REVEAL 879 is a special surfactant chemical retardant which acts on the top part of fresh concrete by breaking down its crust in a depth of 5-6mm.

- It is applied on the concrete surface in order to help reveal the contained aggregates by removing the top concrete crust of 5-6mm with the help of subsequent rinsing with water under pressure (this is the POLYBETON exposed-aggregates system)
- Applied by spraying
- Does not alter the strength values of the concrete

TECHNICAL DATA

Basis:	one-component, water-soluble surfactant
Appearance:	liquid
Colors:	clear
Viscosity:	1100 ± 100 mPa•s at 23°C
Density:	1,200 ± 0,010 gr/cm ³
Temperature for the application and drying of the material:	15 – 25°C

**PREPARATION -
APPLICATION**

The success in the application depends on the right preparation of the underlay and use of the material.

- Application of **POLYBETON SYSTEM** is carried out on fresh concrete before it dries. The conventional thicknesses are recommended for the concrete substrate (15-20cm for new concrete slab or 8cm for concrete screed on top of existing reinforced concrete infrastructure). After the substrate is laid, **POLYBETON REVEAL 879** is sprayed on the whole surface with consumption of 300 gr/m². Then the surface is thoroughly rinsed with water under pressure within the next 5-24 hours, depending on the ambient temperature and the type of concrete (C 16/20, C 20/25, grey or white).
- After the surface dries out, **POLYBETON PROTECT M 880** is applied by brush or spraying device with consumption 200-300 gr/m² for stabilizing and waterproofing of the final surface

It is necessary to form a grid of joints on the floor (with sides 5X4m or 5X5m), which are subsequently sealed with a special polyurethane mastic

- *** POLYBETON SYSTEM is not recommended for concrete class lower than C16/20

CONSUMPTION

- Approx. 0,2-0,3 kg/m².

**APPLICATION
TOOLS**

Spraying
Tools should be cleaned immediately after use.

PACKAGING

Supplied in 20 kg drums

STORAGE

Six months in unopened containers in dry places with minimum temperature 5°C.

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REMARKS

- Working time of **POLYBETON REVEAL 879** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **POLYBETON REVEAL 879** must be avoided as contact with atmospheric moisture might result in skinning or altering of the product's physical-chemical properties.
- All surfaces should be thoroughly cleaned from dust and residues prior to each application.
After hardening **POLYBETON REVEAL 879** 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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