

# POLYESTER MARMOR FLOOR 804

## FOR EXTERIOR USE

### GENERAL CHARACTERISTICS

**POLYESTER MARMOR FLOOR 804** is three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,5-1,8mm and 2-4mm) and polyurethane resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for exterior use.
- For interior surfaces it is recommended the use of epoxy-based **POLYESTER MARMOR FLOOR**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for industries, hotels, schools, shopping centers, swimming pools and generally areas where high resistant and beauty is demanded.
- Combines perfectly with **POLYESTER MARMOR PASTE 404** for a uniform coating of floors and walls.

### TECHNICAL DATA

Basis:	two-component polyurethane resin, aggregates
Appearance:	viscous paste
Colors:	available in 24 colors
Viscosity(A+B):	1100 ± 50 mPa•s at 23°C
Density (A+B):	1,022 ± 0,014 gr/cm <sup>3</sup>
Bulk density (C):	1,465 ± 0,005 Kg/lt (grain thickness 2-4mm) 1,390 ± 0,090 Kg/lt (grain thickness 0,5-1,8mm)
Mixing proportion (A+B:C):	10:90 by weight
Granulometry (C):	500 µm – 1800 µm 2000 µm – 4000 µm
Final strength:	after 7 days at 23°C
Temperature for the application and drying of the material:	12 – 30°C
Walkability:	after 2 days at 23°C
Adhesive strength:	4,20 ± 0,30 N/mm <sup>2</sup> (breaking of concrete)

### SUBSTRATE REQUIREMENTS

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

#### Thessaloniki Office

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## 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.

- Grinding 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 **POLYURETHANE PRIMER**. Consumption: 250-400 gr/m<sup>2</sup>, depending on the absorption of the underlay.
- Following **POLYESTER MARMOR FLOOR 804** 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 trowel or spatula. The material is pressed using a rectangular stainless spatula 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 **POLYURETHANE VARNISH** (consumption: 300-400 gr/m<sup>2</sup>) in order for the surface to become rigid and to avoid any loose grains.

## CONSUMPTION

5 Kg/m<sup>2</sup>, for grain thickness 0,5-1,8mm.

12 Kg/m<sup>2</sup>, for grain thickness 2-4mm.

## APPLICATION TOOLS

Trowels, rectangular stainless spatulas. Tools should be cleaned with **POLYURETHANE SOLVENT 133** 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

At least 12 months in unopened containers in dry places with minimum temperature 5°C.

## REMARKS

- Working time of **POLYESTER MARMOR FLOOR 804** decreases when ambient temperature rises.
- 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 ground prior to application of a new layer.
- It is recommended that tools are cleaned periodically with **POLYURETHANE SOLVENT 133** during application of **POLYESTER MARMOR FLOOR 804** for a smooth final surface.
- After hardening, **POLYESTER MARMOR FLOOR 804** 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.**

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 POLAT S.A.

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# POLYESTER MARMOR FLOOR 804

## FOR INTERIOR USE

EPOXY BASED, COLORED, DECORATIVE, INDUSTRIAL, THREE-COMPONENT FLOORING

### GENERAL CHARACTERISTICS

**POLYESTER MARMOR FLOOR 804** is three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,5-1,8mm and 2-4mm) and epoxy resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for interior use.
- For exterior surfaces it is recommended the use of polyurethane-based **POLYESTER MARMOR FLOOR**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for hotels, shopping centers, swimming pools, squares and generally areas where high resistant and beauty is demanded.
- Combines perfectly with **POLYESTER MARMOR PASTE 404** for a uniform coating of floors and walls.

### TECHNICAL DATA

Basis:	two-component epoxy resin, aggregates
Appearance:	viscous paste
Colors:	available in 24 colors
Viscosity(A+B):	2300 ± 150 mPa•s at 23°C
Density (A+B):	1,102 ± 0,006 gr/cm <sup>3</sup>
Bulk density (C):	1,465 ± 0,005 Kg/lt (grain thickness 2-4mm) 1,390 ± 0,090 Kg/lt (grain thickness 0,5-1,8mm)
Mixing proportion (A+B:C):	10.7:89.3 by weight
Granulometry (C):	500 µm – 1800 µm 2000 µm – 4000 µm
Application time (A+B):	approx. 20 min at 23°C
Final strength:	after 7 days at 23°C
Compressive strength (A+B): (ASTM D 695)	28,6 N/mm <sup>2</sup> , 7 days at 23°C
Flexural strength (A+B): (Din 1164)	15 N/mm <sup>2</sup> , 7 days at 23°C

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

### SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 28 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.

- Grinding 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 **POLEPOX-PR 824** (former EPOXY PRIMER). In case of troweled surfaces when there is a need for a penetrating material, it is suggested the application of the **POLEPOX-PR 824** (former EPOXY PRIMER), with dilution with 50% **EPOXY SOLVENT 132** for deeper penetration, in one layer. Then, application of another or more layers, with undiluted **POLEPOX-PR 824** (former EPOXY PRIMER), until the surface is saturated and a film is created. Consumption: 250-600 gr/m<sup>2</sup>, depending on the absorption of the underlay.
- After application of the primer and while it is still sticky, (2-12 hours depending on the ambient temperature) and within 24 hours, follows the application of **POLYESTER MARMOR FLOOR 804**.
- 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 epoxy mortar is formed.
- The epoxy mortar is applied on the surface using a trowel or spatula. The material is pressed using a rectangular stainless spatula 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 **EPOXY VARNISH** (consumption: 300-400 gr/m<sup>2</sup>) in order for the surface to become rigid and to avoid any loose grains.

### CONSUMPTION

- 5 Kg/m<sup>2</sup>, for grain thickness 0,5-1,8mm.
- 12 Kg/m<sup>2</sup>, for grain thickness 2-4mm.

### APPLICATION TOOLS

Trowels, rectangular stainless spatulas. Tools should be cleaned with **EPOXY SOLVENT 132** 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

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At least 12 months in unopened containers in dry places with minimum temperature 5°C.

#### REMARKS

- Working time of **POLYESTER MARMOR FLOOR 804** decreases when ambient temperature rises.
- 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 ground prior to application of a new layer.
- It is recommended that tools are cleaned periodically with **EPOXY SOLVENT 132** during application of **POLYESTER MARMOR FLOOR 804** for a smooth final surface.
- After hardening, **POLYESTER MARMOR FLOOR 804** 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.**

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 POLAT S.A.

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