

BETOPOL M

Transparent, matt, two-component polyurethane coating with great strength and weather stability.

BETOPOL M is a solvent-based two-component aliphatic polyurethane-based coating, with high abrasion strength, designed specially for laying finishing layers on industrial or commercial floors both outdoors and indoors, where high mechanical strength and a satin surface finish are required. It complies with the requirements of standard EN 13813.

FIELDS OF APPLICATION

- Concrete pavement coating for indoors and outdoors.
- As a matt finishing layer on epoxy systems for pavements in offices, shopping centres, warehouses, industrial bays, etc.
- As an epoxy and polyurethane resin sealing and anti-scratching layer for indoors and outdoors.
- Protective coating for concrete structures subject to aggressive agents.
- Sealing layer for concrete facing as anti-carbonation and anti-graffiti protection for the concrete.

PROPERTIES

- Suitable for indoors and outdoors. Resistant to UV rays. It does not turn yellowish.
- It provides a hard film that is resistant to treading.
- Very good adherence to concrete.
- Totally compatible with epoxy-cement, epoxy or polyurethane systems.
- Resistant to water, sea water, diluted acids, alkalis, mineral oils and hydrocarbons.
- Applicable to horizontal and vertical substrates.
- Easy application, matt, uniform finish.

HOW TO USE

Preparing the substrate:

The substrate must be firm, dry and free of any loose, brittle elements, as well as other substances like grease, oil or other pollutants. To do this, any remains of such substances will have to be removed. Remove the dust by vacuuming.

The concrete substrates must be prepared using mechanical means (shot blasting, diamond polishing or milling) so as to remove the surface slurry and obtain an open pore and textured surface.

Mixing:

First mix component A. Once even, pour component B over A and beat with the help of a low revolution electrical stirrer until the product is mixed completely. Try not to add air to the mixture. To ensure correct mixing, pour the product into another container that is empty and clean, and mix again lightly until it is even, always using this container to prepare the application.

Leave to rest slightly to help remove any trapped air.

Application:

BETOPOL M is generally applied as a matt, anti-scratch finishing layer on epoxy or polyurethane pavements. In these cases, apply a light layer of **BETOPOL M** without diluting, using a roller or an airless gun diluted 5 % in polyurethane thinner, in an amount of 100-150 g/m².

In applications on concrete, apply a first layer as a primer. The second layer is to be applied when the first one is dry, between 15 and 24 hours. Do not walk on before 24 hours and fork-lift trucks will not be able to pass until 3 days later.

Tool cleaning:

The tools are to be cleaned with universal solvent immediately after use. Once hardened, it can only be removed mechanically.

COVERAGE

The approximate coverage on synthetic substrates is 100 - 150 g/m² per layer. On concrete or mortar substrates the amount is approximately 200 - 250 g/m² per layer. However, the amount used in the end will depend largely on the required finish, the site conditioning factors and state of the substrate.

PACKAGING

Pre-metered 10.5 kg units.

Colour: Transparent matt.

STORAGE

12 months, in its original closed packaging, in a cool, covered place, protected from humidity, sunlight and freezing temperatures.

INDICATIONS TO TAKE INTO CONSIDERATION

- Do not apply to damp substrates or substrates with rising damp.
- Make sure that the solvent has evaporated before applying the next layers.
- Do not, under any circumstances, use damp utensils and tools.
- When solvents are added, it is important to control and add the same amount to each packaging and to always use polyurethane solvents. Errors with the solvent can cause drying or shine differences.
- The packages of component B (hardener), once opened, must be used immediately.
- The ambient temperature is to be between +10 °C and +30 °C.
- The temperature of the substrate must be between +10 °C and +30 °C.
- The humidity of the substrate must be less than 4 %.
- The relative humidity of the air must not be more than 80 %.
- In applications indoors, good ventilation must be provided.
- The substrate concrete's tensile strength must be at least 1.5 N/mm² and its compression strength at least 20 N/mm².
- The use of partial mixtures is not advisable.
- Correct substrate analysis and preparation when implementing pavements, conditions its final quality and to a large extent, its durability.

TECHNICAL DATA

Type	Two-component aliphatic polyurethane resin with solvents.
Finish	Transparent matt
Content in dry solids	50 %
Adherence to concrete	> 2 N/mm ²
Mixture density	1.0 g/cm ³
Pot life (22°C)	40 minutes
Application temperature	Between 10 °C and 30 °C
Persoz hardness (< 7 days)	148 seconds
Taber abrasion resistance (CS17 / 1 kg / heavy traffic/ 3 days)	40 mg
Dry to the touch (22°C)	2 h
Time between layers	15 - 24 hours
Pedestrian traffic	24 hours
Truck traffic	Min. 3 days
Total hardening	7 days

CE MARKING



EN 13813

Synthetic resin screed material SR-AR1-B1,5-IR4

Reaction to fire	Class B _{FL} s1
Emission of corrosive substances	SR (synthetic resin)
Wear resistance	AR1 (≤ 100 µm)
Tensile strength	B1.5 (≥ 1.5 N/mm ²)
Impact strength	IR4 (≥ 4 Nm)
Emission of hazardous substances	See SDS

HEALTH AND SAFETY

All the information about conditions of usage, use, storage, transport and removing chemical waste is available on the product Safety Data Sheet.

The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user.

LEGAL NOTICE

The data contained in this document is based on our experience and technical knowledge, gained during laboratory assays, and our bibliography. We will not be responsible for any product applications not indicated in this file. The dosage and consumption data are only guidelines, based on our experience, and may alter due to atmospheric or on-site conditions. For correct dosage and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any doubts or require additional information, please contact our technical department. September 2018.



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