



# MAXURETHANE FINISH®

## TRANSPARENT, WATER-BASED, POLYURETHANE SEALER FOR PROTECTION OF CONCRETE FLOORS AND **MAXPATCH**® DECORATIVE MORTARS



### DESCRIPTION

**MAXURETHANE**® **FINISH** is a two-component, water-based, aliphatic sealer which once applied on concrete floors and mortars, forms a protective transparent film resistant to wear and abrasion, which provides an anti-dust finish, easier cleaning and lower water absorption of the surface.

### APPLICATION FIELDS

- Transparent protection of concrete floors, terrazzo floors and cement screeds, with low porosity, polished or semi-polished finishes, creating a more hygienic surface with lower water absorption.
- Sealing and protection of decorative mortar **MAXPATCH**® range on floors or walls, keeping the same natural and aesthetic appearance.
- Protection of micro-cement mortars, cosmetic mortars and lime-base mortars either on facades, walls or floors, for increasing its abrasion, scratching, stain and weathering resistance exposed to outdoor/ indoor areas.
- Sealing and protection of natural stone, marble, ceramic tiles, wood, etc.

### ADVANTAGES

- It forms a transparent film, practically non-visible, keeping the natural finish of decorative cement mortars or concrete floors. It does not change the appearance of the surface treated.
- Resistant to UV rays, suitable for indoor or outdoor areas. Not subject to color change or yellowing process.
- High abrasion resistance and excellent scratching resistance, increasing the wearing resistance of the surface treated.

- It seals the porosity of the substrate providing a more hygienic surface with anti-dust finish.
- Long lasting, very good weathering resistance exposed on outdoor areas, enhancing the aging and aesthetic appearance of the surface.
- Reduces the water absorption and capillarity of the surface, providing a better anti-stain resistance and easier cleaning.
- Excellent adhesion on concrete, cement mortars and polished surfaces. No special primer/bonding agent is required.
- Water-based product, non-flammable, solvent-free and VOC-free. Suitable for indoor areas with poor ventilation. Environmentally friendly.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Surface must be structurally sound, solid, uniform, without cement laitance. It must be clean and free of coatings, efflorescence, loose particles, dust, grease, oils, curing agents, organic growth or any other contaminants that may affect to adhesion. Surface moisture content should not exceed 10 %. Do not apply on substrates subject to rising damp or negative water pressure.

All small voids, holes, honeycombs once opened must be patched with epoxy-cement mortar **MAXEPOX**® **CEM** (Technical Bulletin No. 197) or with the epoxy-based mortar **MAXEPOX**® **JOINT** (Technical Bulletin No. 237). Static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with **MAXREST**® (Technical Bulletin No. 2) to provide.

Rebars should be cleaned and passivated with **MAXREST**® **PASSIVE** (Technical Bulletin No. 12), while non-structural and surface iron elements must be cut to a depth of at least 2 cm and then covered with **MAXREST**®.

Expansion joints and fissures subject to movements, once properly opened and cleaned, must be sealed with a suitable **MAXFLEX®** range sealant.

## Mixing

**MAXURETHANE® FINISH** is supplied as a pre-weighed two-component set. Premix the components separately, and then the hardener component B, is poured into the resin component A, ensuring is fully added. Mixing manually or preferably using a low-speed drill (300-400 rpm. maximum), fitted with a mixer suitable for liquids, for about 2-3 minutes until achieving a homogeneous product in colour and appearance.

## Application

**MAXURETHANE® FINISH** is applied by a short pile enamelling roller or brush, in a thin and uniform layer with a consumption of 80-100 g/m<sup>2</sup> per coat. Avoid an excessive consumption per coat or ponding of the product by overpainting. Once the first coat is dry, apply a perpendicular second coat with same consumption. The drying time between coats is minimum 2 hours and maximum 24 hours depending on substrate porosity and temperature. Use the mix within the first 45 minutes of pot-life.

## Application conditions

Do not apply when rain, water contact, condensation or dew is expected within 24 h after application.

Do not apply with substrate and/or ambient temperature is at or below 10°C, or when are expected to fall below within 24 h after application. Do not apply to frozen or frost-covered surfaces.

Ambient and surface temperature must be at least 3°C higher than dew point. Do not apply with ambient R.H. higher than 85 %. Check relative humidity and dew point before applying in proximities of marine environment.

With low temperature (between 5-10°C) and/ or higher R.H. levels (> 85 %), use an electric powered air blower system for dry and hot air supply during the curing time (do not use combustion of gas sources).

## Curing

Allow **MAXURETHANE® FINISH** to cure for at least 1 day for pedestrian traffic, and 3 days at 20°C and 50 % R.H. for total curing. Applications at lower temperatures and/or high humidity require longer drying and curing times. At temperatures above 30°C, protect application from direct sunlight.

## Cleaning

All mixing and application tools must be cleaned immediately with water after use. Once product cures, this can only be removed by mechanical means.

## CONSUMPTION

Estimated consumption of **MAXURETHANE® FINISH** is 80-100 g/m<sup>2</sup> per coat, for a total consumption of 160-200 g/m<sup>2</sup> applied in two coats.

These figures are for guidance only and may vary depending on porosity, texture and substrate conditions or application method. Avoid a higher consumption per coat than recommended or ponding of the product. Perform a preliminary test on-site to ascertain the total consumption exactly.

## IMPORTANT INDICATIONS

- Do not apply in higher consumption than the recommended rate and avoid ponding of the product by excessive thickness. In this case white spots may appear on surface.
- Do not apply on substrates subject to rising damp or negative water pressure. Allow substrate to dry enough after rain, water contact, damp, dew, condensation, etc, as well as after washing surface.
- Do not add water, solvents or other non-specified compounds.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

## PACKAGING

**MAXURETHANE® FINISH** is supplied in pre-weighed two-component set of 3 kg (2,7 kg for Component A and 0,3 kg for Component B), 10 kg (9,0 kg for Component A and 1,0 kg for Component B), and 25 kg (22,5 kg for Component A and 2,5 kg for Component B).

## STORAGE

Twelve months for both components, in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture, frost and direct sunlight, with temperatures between 5°C and 30°C.

## SAFETY AND HEALTH

**MAXURETHANE® FINISH** is not a toxic product but direct contact with skin and eyes must be avoided. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXURETHANE® FINISH**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

## TECHNICAL DATA

Product characteristics	
CE Marking, EN 1504-2	
Description: Coating for the surface protection of concrete. Coating (C). Principles / Methods: Protection against penetration by coating (Principle 1-PI / 1.3), and Moisture control with coating (Principle 2-MC / 2.2)	
Appearance component A	White liquid
Appearance component B	Clear liquid
Appearance A+B dry film	Matt transparent
A:B mixing ratio	9:1
Density for component A at 20 ±2°C, (kg/ l)	1,01 ± 0,1
Density for component B at 20 ±2°C, (kg/ l)	1,15 ± 0,1
Density for A+B at 20 ± 2°C, (kg/ l)	1,02 ± 0,1
Flash point	Non-flammable (water-based product)
VOC's content	VOC-free
Application and curing conditions	
Minimum application temperature/ Relative Humidity (°C / %)	>10 / < 85
Waiting time between coats at 20 °C and 50% R.H., (h)	2 - 24
Curing time for pedestrian traffic/Total curing at 20 °C & 50% R.H., (d)	1 / 3
Cured product characteristics	
Permeability to CO <sub>2</sub> , EN 1062-6. S <sub>D</sub> (m)	50,8
Permeability to water vapour, EN ISO 7783	Class I: Permeable to water vapour S <sub>D</sub> < 5
Permeability to water and capillary absorption, EN 1062-3. w (kg/m <sup>2</sup> ·h <sup>0.5</sup> )	0,01
Adhesion on concrete at 28 days, EN 1542 (MPa)	3,7
Consumption*	
Consumption per coat/ total application (g /m <sup>2</sup> )	80-100 / 160-200
Number of coats	2

\* These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®, S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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