



# MAXURETHANE® -W

## ONE-COMPONENT WATER-BASED ALIPHATIC POLYURETHANE COATING FOR OUTDOOR PAVEMENTS

### DESCRIPTION

**MAXURETHANE® -W** is a one-component, water-based, aliphatic polyurethane resin that once cured, provides a protective coat with great hardness and abrasion resistance, achieving long-term finishes with color stability on outdoor pavements.

### APPLICATION FIELDS

- Protective and decorative finish against abrasion on pavements and concrete slabs in car parking, loading areas, industrial floors, warehouses, squares, shopping centres, sidewalks, etc.
- Finish top-coating with UV-resistance on previous epoxy or polyurethane flooring systems.
- Outdoor finish and protection on common substrates such as concrete, mortar, wood, tile, etc.

### ADVANTAGES

- Resistant to UV rays, providing durability and long-term colour stability.
- Very high abrasion resistance, it allows car traffic, forklifts, etc., for using on industrial pavements.
- Excellent adhesion of the system on concrete and cement mortars.
- Water-based product, solvent-free, non-flammable, odour-free, suitable solution for poor ventilated areas. Environmental friendly.

### APPLICATION INSTRUCTION

#### Surface preparation

Surface must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. It must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents,

dust, gypsum plasters, 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.

#### Concrete and mortars:

Provide a mechanical texturing by abrasive disc, dry sand-blasting, scarification or other abrasive method to achieve at least a slightly textured surface, not being desirable aggressive mechanical or chemicals means. Finally, vacuum the dust and loose particles.

All small voids, holes, honeycombs once opened must be patched with epoxy-cement mortar **MAXEPOX® CEM** or with the epoxy-based mortar **MAXEPOX® JOINT**. Static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with fast-setting cement mortar **MAXROAD®**.

Expansion joints and fissures/cracks subject to movements, once opened must be sealed with a suitable sealant of **MAXFLEX®** or **MAXJOINT® ELASTIC EXPRESS**.

Metal surfaces should be cleaned to remove all traces of corrosion, and must be degreased, dry and free of dust.

#### Mixing

**MAXURETHANE® -W** is supplied ready to use. Before application, stir the content of the packaging with a dry and clean tool or preferably by mechanical means with a slow speed electric drill (300-400 rpm) fitted with a disc mixer from about 2-3 minutes until achieving a homogeneous product in colour and appearance.

#### Application

Apply always previously one coat by brush, roller or air-less spray of the water-based epoxy primer **MAXEPOX® PRIMER -W**, with a consumption of 0,20-0,25 kg/m<sup>2</sup>. Once it is perfectly dry to touch, between 12-24 hours, proceed with application **MAXURETHANE® -W**.

*Coating with smooth surface finishing:* Once primer is dry, apply two crossed coats of **MAXURETHANE® -W** with a consumption from 0,20 to 0,25 kg/m<sup>2</sup> per coat, and allow a drying time of 6 to 8 hours between coats, depending on temperature. Total recommended consumption of **MAXURETHANE® -W** for this application is of 0,4-0,5 kg/m<sup>2</sup>.

Additional coats can be applied following the same interval time between coats. Do not allow more than 24 hours between coats. If this time does elapse before the following coat is applied or the surface has been in contact with water or other liquids, then lightly sand the surface before proceeding with next coat.

On vertical surfaces, apply in three or four coats to achieve the same total consumption.

*Coating with anti-slippery surface finish:* Once primer is dry, apply one coat of **MAXURETHANE® -W** with a consumption of 0,25-0,30 kg/m<sup>2</sup> per coat. While this coat is still fresh, dust dry and clean silica sand **DRIZORO® SILICA 0204** (0,2-0,4 mm size) with a consumption from 1,0 to 1,5 kg/m<sup>2</sup>. Once it is dry, sweep and vacuum surface to remove unbounded and excess sand. Finally, apply a second coat of **MAXURETHANE® -W** with a consumption from 0,25 to 0,30 kg/m<sup>2</sup>. Total recommended consumption of **MAXURETHANE® -W** for this application varies from 0,5 to 0,6 kg/m<sup>2</sup>.

### 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 10°C 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 R.H. higher than 90%. Check relative humidity and dew point before applying in proximities of marine environment. At temperatures above 30°C, protect application from direct sunlight.

With low temperatures, higher humidity levels or both, use dry and warm air in order to get the suitable conditions, such as with an electric powered air blower system. Consequently, and for the evaporation of water contained in the product, if hot air is used, it must come from a dry source (electricity). The hot air from the combustion of gas or oil produces a large amount of moisture that makes it difficult to drying of the coating.

### Curing

Allow **MAXURETHANE® -W** to cure for at least 12 hours for pedestrian traffic, and 24 hours for car traffic at 20°C and 50% R.H. Applications at lower temperature and/or higher humidity require longer drying and curing times.

With temperatures higher than 30°C, protect the application from the direct exposure to the sun.

### 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 for **MAXURETHANE® -W** as smooth finish is 0,2-0,25 kg/m<sup>2</sup> per coat, for a total consumption of 0,4-0,5 kg/m<sup>2</sup>.

Estimated consumption of **MAXURETHANE® -W** as anti-slippery finish is 0,25-0,3 kg/m<sup>2</sup> per coat, for a total consumption of 0,5-0,6 kg/m<sup>2</sup>.

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.

### IMPORTANT INDICATIONS

- 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.
- Allow new concrete and cement mortars to cure 28 days before coating.
- Do not add solvents, thinners or other non-specified compounds.
- The silica sand for anti-slippery finish must be perfectly dry before dusting.
- Observe the recommended consumptions per coat.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

### PACKAGING

**MAXURETHANE® -W** is supplied in 22 kg drum. It is available in colour light grey, red, green and white. Others colours by special request.

## STORAGE

Twelve months 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. Storage at higher temperature may result in an increase of viscosity.

## SAFETY AND HEALTH

**MAXURETHANE® -W** is not flammable and 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® -W**.

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	
Aspect	One-component pigmented paste
Colour	White, grey, red, green
Density in fresh at 20 ±2°C, (g/cm <sup>3</sup> )	1,08 ± 0,1
Flash point	Non-flammable
Application and curing conditions	
Minimum application temperature/ Relative Humidity (°C / %)	> 5 / < 90
Waiting time between coats at 20 °C and 50% R.H., (h)	6-8
Curing time for pedestrian traffic/car traffic at 20 °C & 50% R.H., (h)	12 / 24
Consumption*	
Consumption Smooth Finish per coat / total application, (kg/m <sup>2</sup> )	0,2-0,25 / 0,4-0,5
Consumption Anti-slippery Finish per coat / total application, (kg/m <sup>2</sup> )	0,25-0,3 / 0,5-0,6

\* 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

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