



MAXURETHANE®

PAV

TRANSPARENT POLYURETHANE BINDER RESIN FOR STONE PAVEMENTS IN THICK LAYER



DESCRIPTION

MAXURETHANE® PAV is a one-component transparent liquid based on solvent-free aliphatic polyurethane resin, specifically designed to be mixed with aggregates to provide stone-exposed pavements in thick layer.

APPLICATIONS

- Pedestrian pavements in shopping centres, squares, gardens, playground areas, footpaths, etc.
- Pavements with light wheel traffic in residential areas.
- Stone-based toppings on asphalt, concrete, etc.
- Slopes on river side and artificial lakes.

ADVANTAGES

- It is UV-stable with no yellowing process and non-degradable under permanent moist conditions.

- Improves cohesion and adhesion of stone, gravels, and aggregates on surface.
- Increases abrasion and durability resistance of stone-based patches and toppings.
- It provides an open porous substrate with permeability and reduces the risk of water ponds.
- Allows the aesthetic finish of the original natural stone.
- Easy mix and application, with conventional concrete mixers.
- Solvent-free, non-toxic and non-flammable. Environment friendly.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be levelled, sound, compacted, clean and with the enough mechanical strength for the expected traffic to load.

Remove all damaged concrete and loose particles to expose a structurally resistant substrate. Clean all traces of paint, dust, grease, efflorescence,

gypsum, plaster, and mould release compounds. Surface must be completely dry.

Mixing

Aggregate must be completely dry, clean, and free of fillers, dust, salts, or any other contaminants.

Mix mechanically **MAXURETHANE® PAV** with the aggregate in a concrete mixer until achieves a homogeneous mixture free of lumps. Follow the proper mix ratio of binder:aggregate as indicated in Technical Data.

Apply immediately the mix by trowel without pressing too hard or by a straight edge, in thickness layer between 4-5 cm approx. Final compaction can be done mechanically by trowelling machine. Avoid overworking the surface. Placing and finishing must be done in 30 minutes after its mix.

Trial mixes with other different ratio binder:aggregate can be tested depending on the specific work and final properties required.

Application conditions

Do not apply if rainfall, dew, condensation, or water contact is expected the first 24 hours.

The optimum working temperature range is 10°C to 30°C. Do not apply below 10°C and if it is expected the first 24 hours. Do not apply on frozen surfaces.

Curing

Allow to cure 12-24 hours at 20°C and 50% R.H. before putting in service. Lower temperature and higher R.H. increase the curing time. In the case of shorter curing times, use **MAXEPOX® CAT** with mixing ratios given in Technical Data table.

Cleaning

Tools and equipment should be cleaned immediately with **MAXSOLVENT®** after use. Once material hardens, it can be removed only by mechanical methods.

CONSUMPTION

The estimated consumption for **MAXURETHANE® PAV** expressed as a binder to aggregate mix ratio depends on the granulometry of the aggregate used, see attached Data Table.

Consumption may vary depending on the characteristics of the aggregate used in the mixture and the conditions of the substrate, as well as the application method. Perform an on-site test to find out its exact value.

IMPORTANT INDICATIONS

- Do not add solvents or any other non-specified compound in the mix.
- Changes in the recommended ratio binder:aggregate and in the aggregate size can lead different curing time and performances. In that case, make previous trials to determine the final properties desired.
- For other uses not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXURETHANE® PAV is supplied in 25 kg drum and 200 kg drum.



STORAGE

Six months in its original unopened drum, in a dry and covered place protected from direct sunlight, humidity and frost, with temperatures between 10°C and 35°C. Storage above 35°C may result in an increase of viscosity of the resin.

SAFETY AND HEALTH

MAXURETHANE® PAV is a non-corrosive, non-flammable, and non-toxic product but eye and skin contact must be avoided.

Use gloves and safety goggles. In case of eye contact thoroughly clean with clean water, but do not rub. In case of skin contact, wash affected areas with water and soap. If irritation persists, seek medical attention.

It is available Safety Data Sheet of **MAXURETHANE®**.

Disposal of the product and its empty packaging must be made by the final user and according to local official regulations.

TECHNICAL DATA

Characteristics of the product		
Colour and appearance	Transparent liquid	
Solid content, (% by weight)	100	
Density (g/cm³)	1,1 ± 0,1	
Application and curing conditions		
Minimum temperature for application and curing, (°C)	>10	
Pot life and total curing time at 20°C & 50 % R.H. MAXEPOX CAT / MAXURETHANE® PAV mixing ratio (% , w/w)	Pot life (h)	Curing time (h)
0	>6	12-24
1	3	6-8
2	1,5	3-4
3	45 min	1,5-2,5
Thickness/Mixing ratio*		
Thickness per layer, (cm)	4 – 5	
Mixing ratio MAXURETHANE® PAV :aggregate		
Aggregate size (mm)	% Binder (w/w)	
1 - 3	6	
3 - 5	5	
5 - 8	4	
8 - 12	3	
12 - 16	2,5	
16 – 22 (or higher)	2	

*This recommended ratio is for guideline only, and it can varies depending on porosity and shape of the aggregate.

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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