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PURION PRIMER W

POLYURETHANE PRIMING AND CONSTRUCTION RESIN

USE

Two-component solvent-free polyurethane resin for priming seasoned and dry mineral substrates. The resin is also suitable for base layers for backfilling with quartz aggregate in car park systems.

SUBSTRATE

The mineral substrate should be of class min. C20/25 with a stripping strength of min. 1.5 MPa. The relative humidity of the substrate should not exceed 4% (by weight). The top layer must be free of cement laitance, dirt and old coatings. The best way to prepare the substrate is by shot blasting. Alternatively, the substrate can be milled or sanded to expose the aggregates.

ADVANTAGES

- low viscosity
- hard elasticity
- very good substrate adhesion
- very good penetration depth
- can be backfilled with sand
- very good chemical and mechanical resistance
- solvent-free
- easy to apply and easy to keep clean
- economical
- very good mechanical properties
- viscosity can be reduced by diluting with polyurethane solvents
- colour: silicon

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METHODS OF APPLICATION

Steel squeegee, rubber or toothed squeegee, resin roller (velour, nylon) or brush.

EFFICIENCY

Priming:
Under normal conditions on a not very absorbent substrate, the consumption is 0.15 - 0.30 kg/m² per coat.

Base layer:
Depending on application technique: 0.5 - 0.8 kg/m².

Detailed layering and material consumption available in the chart "PURION. Parking systems."

EXECUTION OF WORKS

Before use, mix Component A, add the weighed amount of Component B, mix thoroughly for approx. 3-4 minutes using a slow speed mixer. Once mixed, the curing process begins irreversibly - always prepare an amount that can be applied evenly within approx. 15-20 minutes.
Priming should be carried out at temperatures between 15 and 25°C.
The base coat should be applied on a surface previously primed with the same resin.
Polyurethane resins are very sensitive to moisture, both from the substrate and from the air. The relative humidity of the air should not exceed 75%. During the work, air humidity and floor temperature should be controlled so that there are no conditions for the formation of dew point and condensation on the surface to be treated.

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TECHNICAL PARAMETERS

	PARAMETER	VALUE	UNIT
1	Mixing ratio Component A Component B	 100 24	 by weight by weight
2	Density	1,30 to 1,50	[g/cm³]
3	Viscosity	800 to 1000	[mPa*s]
4	Shelf life at 20°C	20-30	[min]
5	Elongation at break	~90	[%]
6	Shore D hardness	~60	[unit]
7	Abrasion resistance	~65	[mg]
8	Crack-bridging capacity at -20°C	Class A2 or A3 depending on system components	[class]
9	Peel strength	>1,5	[MPa]
10	Suitability for use +10°C +20°C +30°C	 ~40 ~30 ~20	 [min]
11	Curing time (min-max waiting time before reapplication) +10°C +20°C +30°C	 30-72 24-48 16-36	 [h]
12	Load capacity* (pedestrian traffic/light load/fully hardened) +10°C +20°C +30°C **approximate times*	 24 h/72 h/9 d 12 h/2 d/5 d 8 h/24 h/72 h	 -

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TOOLS CLEANING

Clean tools and possible contamination freshly with acetone or other polyurethane solvent. If cured, the resin can only be removed mechanically.

CLEANING AND MAINTENANCE OF A RESIN FLOOR

- **Si-Clean –** preparation for daily cleaning and care
- **Si-Wax –** self-gloss polymer paste
- **Si-Active Resin Clean –** alkaline cleaner for basic cleaning and removal of heavy soiling

STORAGE

Store resin and hardener in closed factory containers. Do not allow to freeze. Do not heat above 25°C.

CONTAINERS

Metal cans (Component A and B).

HEALTH AND SAFETY REQUIREMENTS

Some components of flooring compounds in their uncured state are harmful to health. They can cause allergies in particularly sensitive people. Special precautions must be taken when carrying out the work. The rooms where the floors are prepared and applied must be well ventilated. Workers should wear: clothing, shoes, protective goggles and gloves. Detailed safety rules are given in the Safety Data Sheets of the ingredients. Purion polyurethane flooring compounds are physiologically inert to the human body after curing.

Note: *The above information has been compiled to the best of our technical knowledge, but is not legally binding.*

Hygienic Certificate No. B.BK.60111.0742.2022

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