

PRODUCT INFORMATION

REMACOAT PR 100

PRODUCT DESCRIPTION

REMACOAT PR 100 is a solvent-based one-component polyurethane resin. It cures in thin applied layers by evaporation of solvent and subsequently cross linked by absorbing moisture from the air and the ground. Here, a wear-resistant film is formed. These primer films have a yellowish-transparent colour, which increases under the influence of UV rays.

FIELDS OF APPLICATION

Bonding and barrier coating for two-component polyurethane or polyurea coating systems on wood-, concrete-, cement flooring and steel surfaces.

FEATURES

- Good spread ability
- Large Coverage
- Good curing
- High impact strength
- Good weather resistance
- Chemical resistance to dilute acids, lye, water and fuel oil

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Substrates are components made of steel, concrete, screed or plaster. Components to be coated shall be designed and manufactured in accordance with EN 14879-1. For components made of concrete, screed or plaster DIN 1045 must also be observed.

SURFACE PRE-TREATMENT

C-STEEL

Surfaces to be coated must be clean, dry and free of contaminants. All contaminants, including non-visible detectable contaminants, must be removed in accordance with DIN TR 55684 and EN ISO 8502.

Non-alloyed steel surfaces shall be abrasive blasted to "Near White Metal" in accordance with EN ISO 12944-4. A surface preparation degree of SA 2½ (SSPC-SP 10; NACE No. 2) as specified in EN ISO 8501-1 and a "medium (G)" roughness degree as specified in EN ISO 8503-2 must be achieved. A minimum surface profile of $R_z \geq 70 \mu\text{m}$ is required.

To prevent flash rust, the primer must be applied immediately after the blasting and cleaning of the substrate or the component must be air conditioned to a relative humidity of $\leq 40\%$.

CONCRETE

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum tensile strength of 1.5 N/mm^2 and minimum compressive strength of 25 N/mm^2 . The residual moisture content must not exceed 4%.

ENVIRONMENTAL CONDITIONS

Throughout the coating process, the temperatures of the substrate and coating materials shall be maintained within the range specified by TIP TOP. All surfaces shall be maintained at a temperature at least 3K above the dew point in order to prevent condensation.

Environmental Conditions	Value
Max. Air Humidity	$\leq 98\%$
Application Temperature	-10°C up to $+50^\circ\text{C}$
Dew Point Distance	5 K, Minimum 3K

APPLICATION

During the application of the product, the application instruction must always be observed.

The primer **REMACOAT PR 100** is applied to the substrate using solvent resistant synthetic rollers, conventionally with compressed air or airless air spray system. **REMACOAT PR 100** must be non-sticky prior to over coating.

CONSUMPTION

Product	Thickness [μm]	Coverage [g/m^2]
REMACOAT PR 100	covering	ca. 100 (steel)
REMACOAT PR 100	covering	ca. 250 (concrete)

The information about coverage is an average for spray applications. Actual coverage depends on the object geometry and the method of application. It can vary.

POT LIFE [min]

Product	15°C	20°C	30°C
REMACOAT PR 100	-	40 - 60	-

RECOAT TIME (20°C)

Product	Min. [h]	Max. [days]
REMACOAT PR 100	ca. 1 (steel) / ca. 4 (concrete)	ca. 2 (steel) / ca. 3 (concrete)

CLEANING

Clean all equipment immediately after use. The spray gun should be cleaned with acetone, MEK (methyl ethyl ketone) or DMF (Dimethylformamide). The machine, pump and hoses should be cleaned with Mesamoll or DOP (Dioctyl phthalate).

SAFETY MEASURES

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.



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PACKING UNITS

The products are supplied in the following standard package sizes:

Product	Size	Article No.
REMACOAT PR 100	0.8 kg	590 2835
REMACOAT PR 100	4 kg	590 2842
REMACOAT PR 100	20 kg	590 2859

STORAGE

The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures a shelf life of the products is given of at least for the following periods:

Product	Temperature	Shelf Life
REMACOAT PR 100	10 - 30°C	12 Months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

Technical Data	Unit	Value
Polymer	-	Diphenylmethane diisocyanate (isomers and homologues)
Solvent	-	Ethylbenzene / Xylene / Aromatic solvents
Colour	-	brown, transparent (coloured as desired)
Density (Mixture)	g/cm ³	0.98 ± 0.02
Solid Content	%	ca. 50
Max. Operating Temperature	-	Depends on the subsequent coating system

* Coating Thickness 4 mm at 38°C

Note: Final properties are reached after 5-7 days. The technological values were determined after 28 days of conditioning at ambient conditions. (T = 23 ± 2°C; humidity = 40 – 60%)

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.

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