

PRODUCT INFORMATION

REMA REPCOAT SL

PRODUCT DESCRIPTION

REMA REPCOAT SL is a cold curing two-component coating system based on polyurea. This coating system is manually applied to the respective substrate.

COATING LAYERS CONSUMPTION

The coating system consists of the primer **REMACOAT PR 100** and the two components **REMA REPCOAT SL COMP. A** and **REMA REPCOAT SL COMP. B**. The total applied DFT is based on the present chemical, thermal and mechanical load and is minimum 1 mm.

POLYMER TYPE

Comp.	Polymer Type	Colour
COMP A.	Modified pre-polymer based on TDI	White, turbid
COMP B.	Mixture of difunct. polyamines	Red

FIELDS OF APPLICATION

REMA REPCOAT SL can be used as a multifunctional surface protection material for small scale applications within almost all industrial practices. With its self-levelling properties, **REMA REPCOAT SL** is particularly suitable as an intermediate layer of wear resistant linings, besides as a flooring for mechanically stressed surfaces (e.g. sports fields, multipurpose halls, etc.).

REMA REPCOAT SL has an excellent resistance against wet wear and against impact wear (case specific) which makes it ideal for wear protection field. As a wear resistant component of belt scrapers, **REMA REPCOAT SL** is excellently suitable for manual applications in the workshops.

REMA REPCOAT SL is particularly suitable for applications on horizontal surfaces and is well suited for the repairs of polyurea and polyurethane coatings, as well as certain rubber linings based on IR, SBR, NR, and BR.

FEATURES

- Self-levelling characteristics
- Multifunctional surface protection for smaller surfaces
- Excellent resistance to wet abrasion

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Substrates are steel components. Components to be coated shall be designed and manufactured in accordance with EN 14879-1.

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 $\leq 40\%$.

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°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 an airless air spray system or by rolling or brushing. **REMACOAT PR 100** must be non-sticky prior to over coating.

REMA REPCOAT SL COMP. A is supplied in solid condition and therefore this component has to be melted before use. To obtain the molten form, **REMA REPCOAT SL COMP. A** needs to be placed within the packing onto a heating plate set around 100 – 120° C. **REMA REPCOAT SL COMP. A** liquefies in about 30 – 45 minutes of heating and stirring.

This pre-heating of the **REMA REPCOAT SL COMP. A** is a requisite. If **REMA REPCOAT SL** is applied as an additional topcoat, temporary barriers have to be built on the edges of the lined object to avoid the applied material's flow. (e.g. by using self-adhesive weather strip rubbers.)

The two components **REMA REPCOAT SL COMP. A** and **REMA REPCOAT SL COMP. B** must be stirred thoroughly before use. The mixture is then applied carefully onto the prepared surface.

Spread the mixture evenly over the surface. By self-leveling properties of the material a partially good distribution of the coating system is achieved. In the case of smaller objects a better distribution in the corners can be achieved by additional stirring.

MIXING RATIO

The coating components are supplied in pre-measured units so that weighing or measuring of the components is kept to a minimum. After the unit has been mixed it shall be used within the specified pot life.

Coating	Parts by Weight	Parts by Volume
REMA REPCOAT SL COMP. A	0.384	500
REMA REPCOAT SL COMP. B	0.124	200

POTLIFE [min]

Product	25°C
REMA REPCOAT SL	ca. 25 - 45

REMA REPCOAT SL

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.

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
REMA REPCOAT SL COMP. A	0,384 kg	590 2610
REMA REPCOAT SL COMP. A	7,86 kg	590 2611
REMA REPCOAT SL COMP. B RED	0,124 kg	590 2620
REMA REPCOAT SL COMP. B GREEN	0,124 kg	590 2625
REMA REPCOAT SL COMP. B	2,48 kg	590 2626

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 Month
REMA REPCOAT SL COMP. A	10 - 30°C	12 Month
REMA REPCOAT SL COMP. B	10 - 30°C	12 Month

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	Standard	Unit	Value
Abrasion (Volume Abrasion) Taber Abraser (1.000 cycl. H-18)	DIN ISO 4649 ASTM D4060	mm ³ mg	< 81 – 93 < 35
Density	EN ISO 2811 (ASTM D1475)		COMP A.: 1.02 – 1.04 COMP B.: 2.20 – 2.40 Mixture: 1.20 ± 0.02
Hardness Shore A	ISO 868	-	80 ± 5
Elongation at Break	ISO 37	%	> 550 - 675
Tensile Strength	ISO 37	N/mm ²	7 - 15
Resilience	ISO 4462 (DIN 53512)	%	> 50 - 55
Tear Strength	-	N/mm	31 - 35
Max. Operating Temperature Liquids	-	°C	+40
Max. Operating Temperature Dry	-	°C	+130
Short-Term Operating Temperature Dry	-	°C	+150

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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