

Stelpant-PU-Repair

Product description

Stelpant-PU-Repair is a clear, low viscosity, penetrating primer, based on one component moisture-curing polyurethane. It is developed as a primer for concrete, or steel surfaces showing residual rust. This product can be applied at temperatures ranging from -5°C to 50°C and a relative humidity level as high as 98%.

Recommended use

Stelpant-PU-Repair is a sealing primer for mineral surfaces, penetrating agent for residual rust. Due to the very thin film applied primed steel surfaces must be overcoated within a short period of time with adequate topcoats. Due to the wide application parameters this product truly is an all seasons primer.

Technical data*

Product:	Stelpant-PU-Repair
Colours:	clear, slightly brown
Gloss:	-
Density:	approx. (0.95 +/- 0.03) g/cm ³
Volume solids:	approx. (27.0 +/- 2) %
Theoretical coverage:	variable, depending on type of substrate and absorption
Recommended DFT:	-
VOC:	approx. 633 g/l
Thinner:	Stelpant-PU-Thinner (also to be used for cleaning)
Temperature resistance:	max. 140°C (dry heat) or 60°C (wet heat)
Storage:	12 month in unopened original packing and stored at a temperature between 5°C and 30°C and protected from direct sunlight

*Values are calculated.

Drying

Lower temperatures will increase, higher temperatures will shorten the drying process. As this is a moisture-curing coating a humidity of 30% or higher will speed-up the drying process.

In practice drying starts at a relative humidity of 5%, at this level however drying times will increase considerably. Higher dry film thicknesses also increase the drying time of the coating. At a temperature around or below 0°C drying times will also increase considerably. Should you wish to force-cure our coatings at elevated temperatures, a sufficient level of humidity is necessary to enable curing.

Overcoating: min. possible after approx. 4h
In order to prevent adhesion problems, recoating with Stelpant products should be done within 3 days.

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Application conditions

Substrate temperature: from -5°C to +50°C; substrates must be ice free
 Relative humidity: between 30% and 98% relative humidity

Stelpant-products are highly tolerant towards humidity and can be used on slightly damp surfaces, however drops of water must not be visible on the surface. Surfaces have to be clean and free of salts or substances that could interfere with adhesion, e.g. oils and greases.

Material preparation

The material is delivered ready for use. It has to be stirred thoroughly with an electrical or air-driven agitator (at least 3 minutes).

Please check the condition of the cans before opening. They may be under pressure. In this case puncture the lid in order to reduce the pressure.

Open paint cans should be used within a few days. Protect the product from water (e.g. moisture in brushes or residual humidity in spraying devices).

Application methods

	Viscosity	Nozzle (recommended)	Pressure (recommended)
Airless spray:	undiluted	0.28 – 0.40 mm 0.011 – 0.016 inch	190 - 320 bar 2755 - 4640 psi
Brush / Roller:	undiluted		

High pressure air spray is also possible.

Processing instructions

Only use Stelpant-PU-Thinner to dilute Stelpant products or for cleaning purposes. The use of other thinners is not allowed and can lead to negative properties of the dry film and/or thickening of the coating material.

Our one component moisture-curing coatings are specialty products and can only partially be compared with conventional systems. This is why some standard values, for example the tolerances regarding nominal dry film thickness as determined in DIN EN ISO 12944-5:2018-06, are not always applicable.

Surface preparation

Steel:

Manual derusting: St2 to St3 acc. to DIN EN ISO 12944-4:2018-04

Mineral substrates:

Cement slurries, sinter layers and contaminations have to be removed mechanically.

Surfaces have to be clean and free of salts or substances that could interfere with adhesion, e.g. oils and greases.

Important notes

Issue date of Data Sheet:

08/2019. This data sheet supersedes those previously issued.

Safety precautions:

For professional use only.

For all relevant physical, safety, toxicological and environmental data please refer to the Material Safety Data Sheet, which can be provided on request.

Please observe all relevant regulations regarding storage, transport and application as well as the safety precautions printed on the labels on the can.

Disposal:

All empty cans should be disposed of in accordance with local legislation.

Disclaimer:

All products supplied are subject to our General Sales Conditions.

The information given in this Technical Data Sheet is non-binding and merely indicative, as the products can be used under conditions beyond our control. Above data regarding use, application and consumption are to be considered as guidelines only. The corresponding practical data can only be defined per project.

The information in this Technical Data Sheet is based on laboratory testing and given to the best of our knowledge, according to the results of our research activities and our practical experience. However as the products can be used on different materials, substrates and under different working conditions, it is impossible for us to mention all possible details and therefore we cannot accept liability for any damage, unless willfully intended or caused by gross negligence from our side.

The suitability of this product is depending on the substrate, application conditions and intended use. The user must check whether the products are suitable for the intended use.