



Adhesion promoting primer for metal and other difficult surfaces

DESCRIPTION AND APPLICATIONS

In most circumstances, polyurethane resins, thanks to their chemical cross linking (as opposed to physical curing water-based products), provide excellent adhesion to substrates. However, the very high cohesion of these polymers, may contribute to a lack of adhesion and eventual failure on difficult substrates such as metals or non-porous ceramics.



Some supports tend to offer more resistance to adhesion than others:

- Tiles
- Metals
- Brick
- Terrazzo
- Marble
- Ceramics
- Old / polished concrete
- Glass
- Stainless steel
- Old flooring surfaces

In these circumstances, if it is possible, it is recommended to scratch the surface slightly, creating some friction, and favouring the adhesion and compatibility between materials.

APPLICATIONS

PU Primer allows both in the case of waterproofing membranes as well as in floorings, adhesives, and other polyurethane coatings, to obtain high adhesion "links" between the substrate and the coating on top, so that there is a chemical anchorage between both elements. Even though PU Primer is a product that by itself it does not offer any film formation or any mechanical properties, (so it is not a product to be used on its own), it does provide extreme adherence in combination with polyurethane products and cold applied polyureas.

CERTIFICATIONS

ETA: European Technical Assessment document N° 16/149 (ETAG033) – CE marking



TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

Chemical description	Adhesion promoter additive solution
Physical state	Liquid
Packaging	Metal container: 3,8 kg and 20 kg
Non-volatile content	1%
Flash point	12° C
Density	0,78 g/cm ³ (20°C)
Viscosity	3 mPa.s
Colour	Colourless
VOC content	860 g/L
Storage	Keep between 10° and 30°C, away from heat and moisture
Use before	9 months after manufacturing date

MIXING

The product does not need to be stirred. Do not add any other product. Do not add PU primer to other products.

APPLICATION

It is recommended to scratch the surface slightly, creating some friction, if possible, before applying the PU Primer. Apply by brush or roller. Sprayers are also allowed.

PU Primer does not give enough adhesion on unsuitable substrates. It is important to clean and remove all loose material and dirt, greases, and other residues. In addition, surface must be dry.

Apply by wetting all the surface and allow the solvent to evaporate. The product does not give a visible film. No color or appearance change will be noticed after application. Do not apply an excessive amount of product (see below).

On especially difficult substrates (e.g asphalt) it is recommended to test the PU Primer beforehand.

Always ensure that when the PU Primer is applied, the roller is cleaned well or changed to a new one to avoid further contamination with other products.

CURING TIME

Solvent evaporation takes place typically in 30 minutes, depending on the local conditions.

CLEANING

Contaminated tools should be cleaned with solvent Rayston.

RECOMMENDED QUANTITIES

Scrub or spray the surface applying 50 to 100 g/m².

RECOATING

It is not necessary to apply twice.

RETURN TO SERVICE

Application of the following coating can be done one hour after the application of the PU Primer, and up to 4 hours after.

FAQ

QUESTIONS	ANSWERS
No film formed	Normal. There is only a microscopic additive layer on the surface. Make sure there are no areas left unprimed.
Too much product?	Do not apply excessive amount. If there is an excess, the additive begins to be visible as a haziness or small drops on the surface. This excess does not improve adhesion properties. Remove and homogenize.
What surfaces can be used onto?	All surfaces where some doubts may arise with respect to the adhesion of polyurethane compositions. These are usually very smooth surfaces (e.g ceramic tiles and metals). In these cases, use of this kind of primer is usually mandatory.
Which polyurethane products can be used with	All polyurethane compositions (1k moisture cured and 2k): Colodur, Impertrans, Impermax, and sprayed systems such as Impermax 2K.



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SAFETY

Primer PU contains flammable solvents. Take all necessary precautions during handling and transport. See the material safety data sheet for more detailed information.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Data Sheet supersedes all previous versions.