

SUPER-ACCELERANT PU



Curing additive for Impermax

DESCRIPTION

The moisture-cured Impermax polyurethane can require, under certain conditions, a faster curing process, because of job constraints or low temperature and air humidity. Super-accelerant PU reduces dramatically the curing time with no loss of relevant Impermax properties. It allows to obtain a surface skin in a short time, reducing risk of damage by rain, drift, slopes, etc, and it can be put into service after few hours, with less residual tacking effect.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical description	Catalyst solution in organic solvent
Physical state	Liquid
Packaging	Metal container 1,5 kg
Non-volatile content	43%
Flash point	26°C
Colour	Clear yellow. Colour is unstable under sunlight. This discolouration takes place also in the treated Impermax membrane (gray turns to green). This change does not impair the membrane mechanical properties.
Density	0,99 g/cm ³ (20°C)
Viscosity Approximate, Brookfield	20°C, s62, 100 rpm: 5 mPa.s
VOC content	572 g/L, 57%
Storage	Keep at temperatures between 35°C away from ignition sources and moisture.
Use before	12 months after manufacturing date

RECOMMENDED ENVIRONMENTAL CONDITIONS

Addition of Super-accelerant PU reduces the effect of air moisture in the Impermax curing process. Nevertheless, it is recommended to follow the general guidelines of Impermax, paying attention to the limitations of temperature and air humidity.

PREPARATION

Not necessary.

MIXING RATIO

Super-accelerant PU is delivered in pre-dosed containers with 1,5 kg each, ready for use in a 25 kg Impermax container.

This is equivalent, as a general rule to:

By weight: Impermax: 100/Superaccelerator Impermax: 6

By volume: Impermax: 100/Superaccelerator Impermax: 8

Do not use an excess of Super-accelerant PU. Excess of product can give rise to a loss of membrane properties.

MIXTURE PROPERTIES

Addition of Super-accelerant PU lowers the viscosity of Impermax. Depending on the temperature and initial Impermax viscosity values, viscosity drop may be up to 50%. Bear this in mind when considering application quantities.

MIXING AND APPLICATION

Pour gently Super-accelerant PU into the Impermax and mix with a low-speed stirring before use. Wait some minutes before application and use the mixture following the general guidelines for Impermax. Addition of Super-accelerant PU has an effect on the viscosity and solids content of Impermax. Please take this into account when calculating the amount and thickness of Impermax if a final coat of 1,5-2 mm minimum is to be obtained.

After mixing, the modified Impermax must be used entirely.

CURING TIME

Curing time for mixtures Impermax/Super-accelerant PU, 1 mm thick, approximate:

Conditions (°C)	Dry to touch (h)
35°C, 30% hr	1,5 h (With no Super-accelerant PU : >10h)
23°C, 40% hr	3 h (With no Super-accelerant PU : >10h)
5°C, 60% hr	7 h (With no Super-accelerant PU : >24 h)

POT LIFE

Addition of Super-accelerant PU reduces the normal Impermax pot life. The following pot life data are approximate.

Temperature (°C)	Pot life (min)
5	180
23	60
35	30

QUESTION AND ANSWERS

Question	Answer
What if a different ratio is used?	Less Super-accelerant PU than needed makes curing time longer, but no damage is expected. Using more Super-accelerant PU than needed does not reduce drying time, and will strongly damage final membrane properties.
What happens in case of rain?	Early rain-resistant, skin development takes place much faster than in Impermax. Use of the Super-accelerant PU can, therefore, be highly recommended in case of risk of rain.
Could it be used for other moisture-cured polyurethanes?	The formulation is not designed for use with other products. In case of Impermax Thixo, please consult.

SAFETY

Super-accelerant PU contains flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions there described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

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. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

OTHER INFORMATION

The information contained in this 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 previous versions.

