

THIXOTROPY ADDITIVE

RAYSTON
products



Anti-sagging additive for Impermax applications

DESCRIPTION AND APPLICATIONS

Polyurethane products are easy to apply on flat surfaces, but their self-leveling behavior makes them difficult to apply on sloped or vertical surfaces. It is necessary to take measures to prevent sagging and dripping along the surface, to obtain a coating thickness as even as possible and ensuring adequate membrane quality.

A reinforcing option is to use the geotextile Geomax. It can be applied onto the first coat of fresh product and reduces the sagging of the following coat. However, this solution is more time-consuming, and the membrane elasticity is reduced. The Thixotropy Additive skips these disadvantages: it is added to Impermax or other polyurethanes before application and reduces sagging by modifying the rheological behavior of the polymer. Final membrane properties are not affected.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical description	Modified polyurethane solution
Physical state	Liquid
Packaging	Plastic bottle 1 kg
Non-volatile content	26%
Flash point	31 °C
Colour	Yellow clear
Density	0,96 g/cm ³ (20°C)
Viscosity	20°C, s62, 100 rpm: 20 mPa.s
VOC content	710 g/L, 74%
Storage	Keep at temperatures below 35°C, away from ignitios sources and moisture.
Use before	12 months after manufacturing date.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Follow general application guidelines for the relevant product (e.g Impermax).

PREPARATION

This product undergoes a phase separation into two liquid parts. Lower layer is yellow, and the upper layer is colourless. Stir gently until a translucent yellow homogenous liquid is obtained and use it immediately.

MIXING RATIO

Thixotropy additive is delivered in pre-dosed containers of 1 kg ready to be added to 25 kg of Impermax. Mixing ratio for other products may vary slightly (e.g Impermax Aqua 2k).

This 1/25 ratio is suitable for most cases. A smaller ratio will lead to a sensible decrease of effectivity, while bigger quantities may give rise to an apparent gelling of the Impermax mass, or a granular, coarse finish. It is therefore recommended to use the stated quantity.

The 1/25 ratio is equivalent to:

- Impermax 100/ Thixotropy Additive 4, by weight
- Impermax 100/Thixotropy Additive 5, by volume

Please ask for specific ratios for other products.

MIXTURE PROPERTIES

Addition of Thixotropy Additive lowers initial viscosity. Depending on the temperature and initial viscosity values, viscosity drop may be up to 50%. Bear this in mind when considering application quantities and procedures.

MIXING AND APPLICATION

Pour Thixotropy Additive into the ready to use product (e.g Impermax and mix with a low-speed stirrer before use. Wait 5 to 10 minutes before application to allow development of the thixotropic effect and use the mixture following the general application guidelines. This time may be longer when working at higher temperatures. No pot life reduction is expected.

TOOL CLEANING

Use Solvent Rayston for tool cleaning.

QUESTION AND ANSWERS

Questions	Causes	Answers
No thixotropic effect	Phase separation	Insufficient previous homogenization. Stir the product until a homogenous mixture is obtained or use all the contents and stir well the modified Impermax mixture.
Can be used in other products?		Impermax Aqua 2k and Paviflex. The thixotropic effect is present also in other products such as Colodur or Impertrans, but, in clear coatings, final appearance is granular, therefore it is not usually recommended.

SAFETY

Thixotropy additive 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" 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.



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