

MATTING ADDITIVE

RAYSTON
products



Additive for gloss adjustment

DESCRIPTION AND APPLICATIONS

Polyurethanes are well known for their excellent mechanical properties and are well suited for waterproofing and flooring applications. The clear cured films usually exhibit a high degree of gloss. Under certain circumstances it is desired to obtain a matt or flat finish. Some examples are:

- Waterproofing jobs in terraces, balconies, walls
- Flooring topcoats (epoxy or polyurethane self-levelling products)
- Wood protection.

Matting Additive reduces surface gloss in polyurethane systems without losing their original mechanical properties

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

Chemical description	Matting silica dispersion in organic solvent
Physical state	Viscous liquid
Packaging	Metal container 4 kg
Non-volatile content (%)	31%
Flash point	46 °C
Colour	Off white
Density	0,96 g/cm ³ (20°C)
Viscosity	1,1 mPa.s (20°C)
Approximate, Brookfield	
VOC content	668 g/L, 69%
Storage	Keep at temperatures below 35°C, away from moisture and ignition sources.
Use before	12 months after manufacturing date.

RECOMMENDED ENVIRONMENTAL CONDITIONS

Follow general recommendations of the relevant polyurethane product.

MIXING

Homogenise, before addition, using a low speed stirrer, until a viscous whitish liquid is obtained.

MIXING RATIO

Product is delivered in 4 kg containers, suitable for use into clear polyurethane resin (Impertrans, Colodur, Pavidur). The quantities to use can be adjusted, depending on

- Degree of gloss required
- Coat thickness.

As a general rule, to obtain a matt finish it is necessary to use a minimum ratio of:

- Matting Agent: 40
- Colodur/Impertrans/Pavidur: 100
- Solvent Rayston: 100
(By weight)

MIXTURE PROPERTIES

Addition of Matting Agent strongly reduces the initial viscosity. Take this into account when considering application conditions and methods.

MIXING AND APPLICATION

It is advised to use Matting Agent only in the last topcoat. Ensure that final topcoat thickness is not greater than 60 to 100 microns (60-100 g/m², as a rough guide).

Apply using recommended tools for Impertrans, Colodur, Pavidur or the relevant resin used. The method of application must avoid local product excess since this leads to different coat thickness and gloss differences. When applied by roller, keep to a minimum the overlapping marks, spreading the resin in a regular pattern as much as possible. Use, if possible, wide rollers.

On porous substrates, seal previously the surface, since the absorption/drainage of the liquid would leave a dry layer of matting additive that will look white and chalky.

Use the mixture entirely before 24 hours.

Gloss value (60°) for Colodur applications (100 µm)

Without additive: 88%
With additive: 41%

POT LIFE

Use the mixture before 24 hours.

TOOL CLEANING

Use Solvent Rayston for tool cleaning.

SAFETY

Matting Agent contains flammable solvent. Take all the necessary precautions when handling this product, according to the Material Safety Data Sheet.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions.

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 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.



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