

# PUR CAT ADDITIVE

RAYSTON  
products



## Curing additive for Impermax

### DESCRIPTION AND APPLICATIONS

Impermax PU membranes may need a shorter than usual curing time when intended to apply in cold and dry environments. PUR Cat Additive is a catalyst liquid formulation that can help to reduce the curing time, with no impairment of the Impermax final properties. PUR Cat Additive reduces the curing time, allowing for an early skin development, reducing the risk of damage by rain, slope effects, etc. It gives a dry product in few hours, with an also shorter tacking time.

It is not recommended to use PUR Cat Additive when temperatures rise above 25°C, or relative humidity is high (60% or more).

### TECHNICAL DATA

#### PRODUCT INFORMATION BEFORE APPLICATION

Chemical description Catalyst solution, in organic solvent

Physical state Liquid

Packaging Metal container  
1 kg

Non-volatile content (%) 3%

Flash point 23° C

Colour Colourless

Density 0,91 g/cm<sup>3</sup> (20°C)

Viscosity  
Approximate, Brookfield 20°C, s62, 100 rpm: 3 mPa.s

VOC content 890 g/L, 97%

Pot life 4 to 6 hours (1kg, 20°C, 50% rh)

Storage Keep at temperatures below 35°C, away from moisture and ignition sources.

Use before 6 months after manufacturing date

### RECOMMENDED ENVIRONMENTAL CONDITIONS

Do not use this product when temperature exceeds 25°C or relative humidity is more than 60%. Speeding the curing rate under high temperature and humidity conditions will lead to bubbling and surface defects.

### MIXING

No mixing precautions needed.

### MIXING RATIO

PUR Cat Additive is delivered in 1 kg- pre-dosed containers, ready to be added to 25-kg Impermax containers. When other sizes must be used, please use the data below to calculate the amount needed:

Impermax: 25, PUR Cat Additive: 1, by weight.  
Impermax 100, PUR Cat Additive 5,6, by volume

### MIXTURE VISCOSITY

Addition of the PUR Cat Additive lowers the viscosity of Impermax. Depending on the temperature and initial Impermax viscosity values, viscosity drop may be up to 50%.

### MIXING AND APPLICATION PROCEDURES

Pour gently the PUR Cat Additive into the Impermax and mix with a low-speed stirring before use. Wait some minutes before application and use the mixture following the guidelines of Impermax.

Addition of PUR Cat Additive 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.

### POT LIFE

PUR Cat Additive shortens the working time. The data below give a rough indication. Data for 35°C is for reference only since at such temperature PUR Cat Additive is not recommended.

Temperature (°C)	Pot life (min)
5	200
23	120
35	60

### CURING TIME

Curing time for Impermax/PUR Cat Additive 25/1 and Impermax

Conditions (°C)	Dry to touch (h)
35°C, 30% rh	1,5 h (Without PUR Cat Additive: >10h)
23°C, 40% rh	4 h (Without PUR Cat Additive: >10h)
5°C, 60% rh	15 h (Without PUR Cat Additive: >24h)

### TOOL CLEANING

Use Solvent Rayston for tool cleaning.

### QUESTIONS AND ANSWERS

QUESTIONS	CAUSES	ANSWERS
		Less than needed only will lengthen the curing time.
What if a different mixing ratio is used?		Using a slight excess (<10% in excess) does not damage the final properties, although no big reduction of curing time is to be expected. Bigger excess may impair final membrane properties and surface appearance.
Bubbling	Excess catalyst, not fit for the current ambient conditions	Use PUR Cat Additive only when temperature and humidity conditions make it necessary.
Rain		Skin formation is faster than in Impermax. Droplet impact can create surface marks that could need repairing with a last application
PUR Cat Additive useful for other Pus?		PUR Cat Additive is not designed for other products than Impermax. It can be used for Impermax ST and Impermax Thixo. Please seek advice for application specifics.

### SAFETY

PUR Cat Additive contains flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. 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 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.



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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.**



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