

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 Car Additive is a catalyst liquid formulation that can help to reduce the curing time and does not affect the Impermax final properties. Pur Car 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 Car 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 ³ (20°C)
Viscosity	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 Car 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 Car 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 Car Additive into the Impermax and mix with low speed stirring before use. Wait some minutes before application and use the mixture following the guidelines of Impermax.

Addition of Pur Car Additive influences 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 Car 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 Car Additive is not recommended.

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

CURING TIME

Curing time for Impermax/ Pur Car Additive 25/1 and Impermax

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

TOOL CLEANING

Use Solvent Rayston for tool cleaning.

QUESTIONS AND ANSWERS

Questions	Causes	Answers
What if a different mixing ratio is used?		Less than needed only will lengthen the curing time. 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 Car 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 Car Additive useful for other Pur?		Pur Car 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 Car Additive contains flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions 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.



KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies
43890 - l'Hospitalet de l'Infant - Spain

Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com

Latest update:

28/05/2025

Page:

1/2

PUR CAT ADDITIVE



Curing additive for Impermax

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.



KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies
43890 - l'Hospitalet de l'Infant - Spain

Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com – rayston@kryptonchemical.com

Latest update:

28/05/2025

Page:

2/2