

EPOXY ACCELERATOR

RAYSTON
products



Cure accelerator additive for epoxy systems

DESCRIPTION AND APPLICATIONS

Epoxy resins are used for priming jobs, as a previous step in waterproofing or flooring polyurethane product applications, for intermediate coats and finishes. However, use of epoxies in cold conditions may be difficult because drying time can be unacceptably long. Either by slow reaction rate or water evaporation. In these cases, addition of Epoxy Accelerator may improve the curing speed, allowing resuming work in a short time.

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

Chemical description	Epoxy reaction catalyst								
Physical state	Liquid								
Packaging	Metal container 1 kg								
Non-volatile content (%)	100%								
Flash point	120°C								
Colour	Yellow								
Density	0,97 g/cm ³ (20°C)								
Viscosity									
Approximate, Brookfield	<table><thead><tr><th>Temperature (°C)</th><th>Viscosity (mPa.s)</th></tr></thead><tbody><tr><td>10</td><td>20000-30000</td></tr><tr><td>20</td><td>6000-10000</td></tr><tr><td>30</td><td>1000-1500</td></tr></tbody></table>	Temperature (°C)	Viscosity (mPa.s)	10	20000-30000	20	6000-10000	30	1000-1500
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10	20000-30000								
20	6000-10000								
30	1000-1500								
VOC (g/L %)	VOC content: 184 g/l Product subcategory: One component, solvent based high performance coatings. Phase II from 01/01/2010: 500 g/l								
Pot life	4 to 6 hours (1 kg, 20°C, 50% rh)								
Storage	Keep at temperatures between 5°C and 35°C, away from moisture and ignition sources.								
Use before	12 months after manufacturing date.								

RECOMMENDED ENVIRONMENTAL CONDITIONS

Use only on adverse curing conditions. Excess of catalysis reduces working time and mechanical properties.

MIXING

No special procedures needed.

MIXING RATIO

Epoxy Accelerator is delivered in 1kg pre dosed containers, ready for 20 kits of Epoxy systems such as Humidity Primer or Rayston Epoxy 100.

General ratios (example):

By weight: Humidity Primer: 100/Epoxy Accelerator: 5,5

By volume: Humidity Primer: 100 Epoxy Accelerator: 6

MIXTURE VISCOSITY

Addition of Epoxy Accelerator as recommended does not change strongly the mixture viscosity.

MIXING AND APPLICATION

Pour Epoxy Accelerator into Component B (amine hardener). Mix both products using a low-speed stirrer until complete homogenization. Component A (epoxy resin) is added afterwards and mixes normally. After mixing, the combined products can be applied according to usual guidelines.

Do not use Epoxy Accelerator at temperatures above 20°C or not warm surfaces (e.g exposed to sun).

POT LIFE

Addition of Epoxy Accelerator decreases the pot life available for application. Following values give an approximate example for Humidity Primer.

Temperature (°C)	Pot life (min)
5	100
20	60

DRYING TIME

Approximate drying time for Humidity Primer applications with Epoxy Accelerator (200 microns thick). Local conditions affect curing time. Similar time reductions are achieved with other epoxy systems.

Conditions (°C)	Dry to touch (h)
23°C, 40% hr	2 h (Without Epoxy Accelerator: >6 h)
5°C, 60% hr	6 h (Without Epoxy Accelerator: >12 h)

TOOL CLEANING

Use Solvent Rayston for tool cleaning.

QUESTIONS AND ANSWERS

QUESTIONS	ANSWERS
I want to use more Epoxy Accelerator	Using more Epoxy Accelerator may speed up the curing, but your working time will be reduced. Also, if an excess of Epoxy Accelerator (>6%) is used, film properties will worsen.
What epoxies is this accelerator suitable for?	Epoxy Accelerator is valid for Primer EP100 and Humidity Primer using the same ratio and application guidelines. Roughly the same accelerator/resin ratio is usable for other epoxy products of the Rayston range, but asking for specific advice is recommended.

SAFETY

Epoxy Accelerator is classified as harmful. Always follow precautions as described in the Material Safety Data Sheet. This product is suitable only for professional use. It is not intended for DIY-applications.

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 potentially 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 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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