pr**epoxy**

Curing Agent **PR-50**

A phenol free polycyclic polyamine with high moisture tolerance, designed for use as a curing agent for liquid epoxy resins.

Curing Agent PR-50 has a prolonged pot life and delivers a good curing performance under a variety of conditions including high humidity and temperatures as low as 5°C.

Curing Agent PR-50 ensures excellent resistance to carbonation, amine blush and water spotting and has a loading of 60 - 65 PHR (60 - 65 parts of curing agent per 100 parts of resin).

Technical Specification

Colour Viscosity @ 20°C Amine value (KOH/g) Specific gravity @ 25°C Gel time @ 25°C Mixing ratio Loading usage Flash point	Gardner 6 max 6 – 10 poise 240 – 270 mg 1.03 28 – 36 minutes 100:50 w/w 60 – 65 parts per 100 parts of liquid epoxy resin, having an epoxy equivalent weight of 190 average >100°C
Thin film set time @ 25°C Typical cure schedule Storage life Handling precaution	3 – 5 2 – 7 days at ambient temperature. Gel at ambient temperature plus 2 hours at 60°C At least 24 months in original sealed containers @ ambient temperature At least 24 months in original sealed containers @ ambient temperature

Curing Agent PR-50

Advantages

- High moisture tolerance
- Good curing performance, under a variety of conditions, including high humidity and temperatures as low as 5°C
- Good gloss and smooth finishes in cured film
- High chemical resistance.
- Suitable for use in the food industries.
- Excellent adhesion to a variety of substrates.
- Good surface finish, with good resistance to carbamation, amine blush and water spotting.
- Loading of 60 65 parts of liquid Epoxy Resin having an Epoxy equivalent wt. of 190 average
- Reasonably long "Pot Life", giving adequate time to use the product

Applications

Curing Agent PR-50 is a general purpose curing agent which can be used in a wide range of applications, the main ones are as follows:

- Flooring industrial or commercial floors, showrooms, schools, plant rooms
- Food industries and pharmaceuticals etc.
- Solvent free and high solids coatings
- General-purpose primer
- Concrete repair compounds

Usage Guidelines

Curing agent PR-50 can be used with the following variety of

Epoxy resin loading of 60 - 65 phr:

- Modified Epoxy Resin PR-5C Low viscosity (mPa.s) – 500 – 850
- Modified Epoxy Resin PR-5C Std viscosity (mPa.s) – 700 – 1000
- Bis A/F Unmodified Epoxy Resin PR-5C Medium viscosity (mPa.s) 6000 – 8000
- Unmodified Epoxy Resin Bis A High viscosity (mPa.s) 12000 15000

All PR Epoxy products are manufactured to a high standard of quality. Whilst we aim to ensure that any advice, information or recommendations given are reliable and correct, the Company cannot accept any liability directly or indirectly arising from the use of its products, as we have no direct or continuous control over where or how its products are applied. No undertaking can be given against infringement of any patented processes.

for chemistry you can count on...

The Court, Kestrel Road, Trafford Park, Stretford, Manchester M17 1SF w: prepoxy.com | e: hello@prepoxy.com | t: +44 (0) 1618 727 618

PR Epoxy Systems Ltd trading as PR Epoxy, part of Vebro Polymers Holdings Limited. Registered in England & Wales. Company number: 12261265. Registered office: The Court, Kestrel Road, Trafford Park, Stretford, Manchester M17 1SF