

Advanced Materials

HYPOX[®] RM22[#]

Reactive Toughener and flexibilizer

DATA SHEET

CTBN-Toughened Epoxidized Cyclohexane Dimethanol Adduct

Applications

- Adhesives
- Encapsulating
- Potting
- Coatings
- Toughening of prepregs and composites

Properties

HYPOX[®] RM22 is an adduct of CTBN with epoxidized cyclohexane dimethanol. Compared to standard epoxy resin/CTBN adducts, the product exhibits a moderate viscosity, coupled with a high rubber content. HYPOX[®] RM22 adduct is intended for use in combination with standard epoxy resins when the end-use application requires toughening and improved rubber compatibility with ARALDITE[®] GY 250. HYPOX[®] RM22 adduct will increase flexibility, crack, fatigue and peel resistance, and adhesive properties. It will also improve the cathodic disbondment property when use in coating formulations for underground buried pipes for oil and gas transport applications

Key data

Specified key data

Epoxy Equivalent Weight (Titration)	320 – 360	[g/eq]
Viscosity at 25 °C (Brookfield)	15000 – 25000	[mPa s]
Color, (Gardner)	<10	
Acid Value	<0.1	

Specified key data are individually checked throughout and guaranteed.

Typical key data

Flash point (Pensky Martens, DIN 51758)	≥ 100	[°C]
Appearance	Clear	
CTBN content	50% HYPRO [®] 1300X13	

Data which is described in this document as 'typical' is not analyzed on a regular basis and is given for information purposes only. Data values are not guaranteed or warranted unless if specifically mentioned.

[#] In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally, the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

Storage	<p>HYPOX® RM22 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.</p> <p>Keep away from food, drink and animal feeding stuff.</p>
Handling precautions	<p>HYPOX® RM22 is not a primary skin irritant or sensitizer. However, as with any epoxy material, irritation can result from repeated or prolonged contact. The symptoms of this irritation may appear as a mild reddening or a more pronounced rash. It is, therefore, important to avoid skin contact where possible. Butyl rubber gloves, full eye protection and protective clothing are recommended.</p> <p>Skin contact: Wash well with soap and water. Remove contaminated clothing and wash thoroughly before reusing. It is recommended that resin not be removed from skin with solvents since solvents increase contact and encourage penetration. Moreover, solvents of themselves dry and crack the skin.</p> <p>Eye contact: Flush immediately with large quantities of water. Contact a physician.</p> <p>Refer to the Safety Data Sheet on HYPOX® RM22 for additional safety and health information. The SDS is revised as new data becomes available.</p>

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