



CeTePox[®] for your Epoxy Systems
As individual as you are.

**Aqueous and chemical
resistant**

**CeTePox[®] 440 R / 72 WAS /
CeTePox[®] 2419 H**



CeTePox[®] 440 R / 72 WAS / ***CeTePox***[®] 2419 H

- Small-particle size, stable emulsion.
Reliable application.
- Good chemical resistance.
Yields access to additional application fields.
- Visible end of pot life.
Easy to apply.
- Reactive emulsifier.
Better performance scope.



Technical Information

CeTePox 440 R/72 WAS

Characteristics liquid epoxy resin based on bisphenol-A and bisphenol F, free from reactive diluents and alkylphenol ethoxylates, emulsified in water

Form of Supply 72 w.-% in water, liquid

Properties and Fields of Application CeTePox 440 R/72 WAS is an aqueous emulsion of a liquid epoxy resin, which is in combination with water-reducible hardeners (e.g. CeTePox 2320 H, 2419 H) suited for the formulation of aqueous epoxy systems for different types of coatings. It can also be used for the wet strength finishing of paper and uncured for the sizing of glass or carbon-fibres. Pigmentation of the water-free resin is possible. With respect to the drying/curing the dependance of waterborne epoxy systems on the climatic conditions of the environment has to be observed.

	Property	Value	Method of Determination
Specification	Solid Content	68-74 w.-%	2 g, 2 hrs @ 105 °C
	Viscosity @ 25 °C	450 ± 250 mPa*s	DIN EN ISO 3219
	Epoxy Eqiv. Weight	270 ± 10 g/eq.	CTP TS 33/34-00
	Mean Average Particle Size	max. 1,4 µm	Laser Scattering
	Density at 23 °C	1,12 ± 0,02 g/cm ³	ISO 2811-2
	Appearance	milky-white	visual

Storage At room temperature the shelf life of the originally packed material is 6 months. Slight settling during prolonged storage is uncritical and may be removed by gentle stirring.

Remarks with Regard to Occupational Safety When working with epoxy resins and hardeners usual precautionary measures for the handling of chemicals as well as applicable legal regulations concerning occupational and environmental safety have to be observed. Especially appropriate skin protection and correct choice of protective gloves have to be considered. Detailed information on dangers, labelling, occupational and environmental protection can be taken from the Safety Data Sheet. A collection of web-links on the safe handling of epoxy binders can be found on our website www.ctpgmbh.

Classification according EC-guidelines:
Xi, „Irritating“
N, "Dangerous for the Environment"

The indications given in this technical information are based on thoroughly executed tests and are to give advice to the user. However, they are non-binding as we cannot take over any responsibility, also related to possible protective rights of third parties, due to the variety of treatment and application.

TI 440 R/72 WAS / E 10-09 / V03

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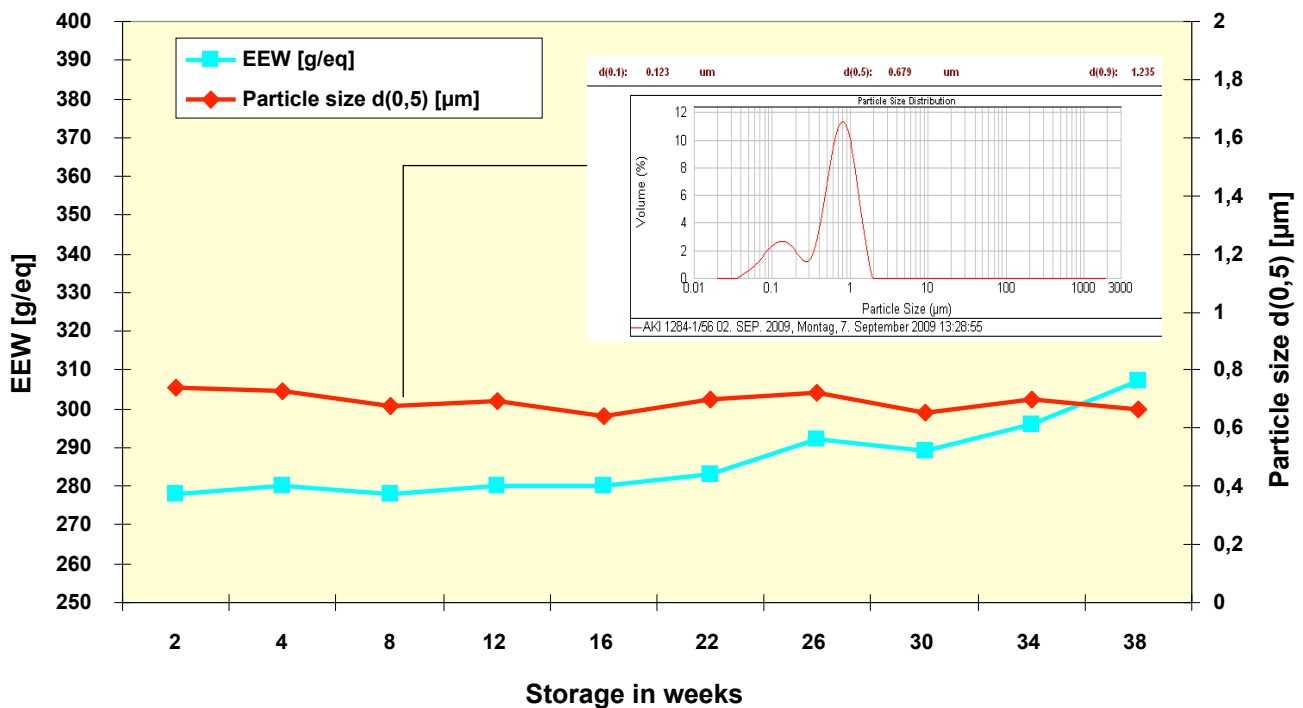
Technical Information			
CeTePox 2419 H			
Characteristics	water-reducible, modified cycloaliphatic polyamine-adduct hardener		
Form of Supply	70% in water		
Fields of Application and Properties	<p>CeTePox 2419 H in combination with water-emulsifiable epoxy resins (e.g. CeTePox 440 R, 464 R) or conventional liquid epoxy resins is suited for the formulation of ambient temperature curing coatings for different applications. With respect to drying/curing of these water-borne coatings the dependance on the environmental climatic conditions has to be observed (fast and complete removal of water). The usable processing time is appr. 3.5 hours with CeTePox 464 R at 23 °C and a mixture solid content of 50 %. The end of the usable pot-life is detectable by a significant increase of viscosity, if liquid epoxy resins are used.</p>		
	<i>Property</i>	<i>Value</i>	<i>Method of Determination</i>
Specification	Viscosity at 25 °C	10.5-18.5 Pas	DIN EN ISO 3219
	Density at 23 °C	appr. 1.10 g/cm ³	ISO 2811-2
	Colour Index	max. 6	ISO 4630
	Water Content	30 ± 2 w.-%	CTP-TS 55-05
	Amine Index	160 - 180 mg KOH/g	CTP-TS 31-97e
Characteristical Data	H*-Equivalent Weight (as supplied)	215 g/Eq.	Calculated
	Flash Point	>100 °C	DIN-ISO 3679
Storage	When stored in originally packed units at ambient temperature the shelf life is at least 12 months. Protect from frost.		
Remarks with Regard to Occupational Safety	<p>When working with epoxy resins and hardeners, the regulations of the "Berufsgenossenschaft der Chemischen Industrie" (e.g. data sheet M 023 polyester and epoxy resins) or of the "Bau-Berufsgenossenschaft" (instruction manual ZH 1/450) resp. have to be considered.</p> <p>Classification according EC-guidelines: Xi; irritant</p>		
<p>The information given in this technical information is based on carefully executed tests and is intended to give reference to the user. However, it is non-binding ,as we cannot take over any responsibility, even with respect to possible protective rights of third parties, due to the variety of treatments and applications.</p>			
TI 2419 H / E 09-05 / V 05			

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Particle size vs. shelf life CeTePox[®] 440 R / 72 WAS

RT-shelf life of CeTePox 440 R / 72 WAS





Tested chemicals
CeTePox[®] 440 R / 72 WAS /
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