

Epoxy Resin 4300 + Hardener 390

Technical Data Sheet

Epoxy Resin 4300 + Hardener 390

Application + Properties

Our epoxy resin "Epox4300/Hardener390" is an epoxy resin gelcoat system for coatings or as a first layer on or in the mold

- Use as osmosis protection, water barrier layer, wood pore filler and as a surface resin for carbon laminates
- Very good adhesion to wood, metal, concrete, polystyrene, GRP, etc.
- Cures stick-free and clear
- medium viscosity
- Solvent and filler-free
- Very good chemical resistance
- Good lightfastness
- this resin/hardener combination is very low in yellowing and chalking

Raw material data

Viscosity Resin	7702 mPas (ISO 3219)	dynamic at 25°C
Viscosity Hardener	180 mPas (ISO 3219)	

Processing

Mixing ratio	100 parts resin / 55 parts hardener (by weight)	at 20°C
Processing Time	40 min.	
Demouldable	36h	
Final	7 days	
Processing Temperature	10-25°C	
Colour scheme	Resin -> colorless; Hardener -> light yellow; Cures clearly	
Tempering / Heat Treatment	1h at RT / 5h at 50°C / 5h at 70°C	

Tempering (improvement of properties)

For visible components that are exposed to a **temperature above 45°C**, e.g. car parts that can heat up to 75°C in summer, **annealing is mandatory**. Otherwise, discoloration and deformation may occur.
For heat-stressed parts, we recommend our Epox 200G + Hardener 120L.

Mixing

The mixing ratio (100 parts resin / 55 parts hardener) must be strictly adhered to and can only be achieved by precise **weighing**. When mixing, you can only achieve a homogeneous mass by repotting and slow, intensive stirring (important: stripping off the edge of the mixing cup).

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Characteristic values

Equivalent mass	Harz = 178g/EQ; Härter = 90g/EQ
Density	Resin = 1.17g/cm ³ ; Hardener = 1 g/cm ³
Flash point	Resin = >100°C; Hardener = >100°C

Curing after				
1 day	Day 7	7 days + 1 day 70°C		
Shore D [Skt]		Tg [°C]		HDT [°C]
84	88	88	70	65

Properties without reinforcing fibers

Test temperature: 23°C

Feature	Result			Standard
	Strength (MPa)	Elongation at break (%)	Modulus of elasticity (MPa)	
Train	55,2	3,7	2985	DIN EN ISO 527
Bend	91,1	5,0	2899	DIN EN ISO 178
Printing	79,3	6,0	2118	DIN EN ISO 604

Storage

Only close opened containers tightly with the original lid. Store in a cool, dry place. With optimal storage, shelf life of at least 12 months.

Work Equipment Cleaning

Hardened resins can only be cleaned mechanically, such as by grinding! Acetone can be used to remove non-hardened resin residues from the tool, which must then air out sufficiently to prevent the cleaner from entering new containers!

Precautions

When processing epoxy resins, the information in the safety data sheet must be observed!

Disposal

Uncured product residues are hazardous waste, hardened systems are construction site waste/household waste.

More information

If you have any further questions, for example about the processing or the product, please do not hesitate to contact us by phone.

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