

ARADUR® 21[#]

Previous designation: Hardener HY 2996

Low-viscosity, aliphatic polyamine

Applications

Liquid to semi-solid Araldite® epoxy resins or resin solutions (e.g. Araldite GY 250, GY 260 or GY 280) do not cure fully when processed solely with Aradur 21; the resulting films are brittle and tend to exudate.

If formulated, as hardener for epoxy resin mortars, floorings, mastics and solvent-free coatings (also for corrosion resistance).

Properties

Depending on the formulation and the epoxy resin used, the surface technologies present the following features:

- good resistance to aliphatic and aromatic hydrocarbons
- very good mechanical properties following optimal cure
- good colour stability
- good resistance to aqueous neutral and alkaline solutions.

Key data

Specified key data

Aspect (visual)	clear liquid	
Colour (Gardner, ISO 4630)	≤ 1	
Amine number (ISO 9702)	680 - 720	[mg KOH/g]
Viscosity at 25 °C (Rotary viscosity, ISO 3219)	≤ 10	[mPa s]

Specified key data are individually checked throughout and guaranteed.

Typical key data

Refractive index at 25 °C (ISO 489)	1.4625 - 1.4645	
H ⁺ active equivalent	39.5	[g/eq]
Density at 25 °C (ISO 1675)	0.87	[g/cm ³]
Flash point (Pensky Martens, ISO 2719)	≥ 102	[°C]
As-supplied form	liquid	
Odour	ammoniacal	
Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	several years	
Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide nitrogen oxides and other toxic gases and vapours	
Disposal	regular procedures approved by local authorities	

Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.

[#] 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.

Mix ratios	The optimum mix ratio for Araldite GY 250 and Aradur 21 is 100:21 parts by weight.
Storage	Aradur 21 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.
Handling precautions	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure “Hygienic precautions for handling plastics products” .
Note	Aradur® is a registered trademark of Huntsman LLC or an affiliate thereof.

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