

**Advanced Materials****Aradur® 43-1#**

Construction industry systems,

**DATA SHEET****Low-viscosity, modified, cycloaliphatic polyamine hardener,  
Nonylphenol-free**

**Applications** In combination with liquid epoxy resins, preferably such as Araldite® GY 783 and GY 793, Aradur 43-1 is suitable for the production of solvent-free floorings, epoxy resin mortars and anti-corrosion coatings.

**Properties** Used along with suitable epoxy resins, Aradur 43-1 presents the following features:

- a relatively low level of viscosity making it easy to work
- good curing properties with relatively long working time; under cool/damp application conditions, the (proportional) use of the reactive hardener Aradur 43-1 S is appropriate
- good mechanical properties
- good all-round chemical resistance
- smooth, glossy, non-tacky cured films (above 12 °C)
- good anti-corrosion protection
- light-coloured films with good colour stability.

**Aradur 43-1 is the nonylphenolfree version of Aradur 43**

Key data	Specified key data		
	Aspect (visual)	clear liquid	
	Colour (Gardner, ISO 4630)	≤ 1	
	Amine number (ISO 9702)	260 - 280	[mg KOH/g]
	Viscosity at 25 °C (Rotary viscosity, ISO 3219)	200 - 400	[mPa s]
Specified key data are individually checked throughout and guaranteed.			
	Typical key data		
	H <sup>+</sup> active equivalent	115	[g/eq]
	Density at 20 °C (ISO 1675)	1.02	[g/cm <sup>3</sup> ]
	Flash point (Pensky Martens, ISO 2719)	>130	[°C]
	Recommended mix ratio with Araldite GY 783	60	[g/eq]
	Gel time (Tecam, 250 g/23 °C)		
	with Araldite GY 250/Aradur 43-1, 100:60 p.b.w.	ca. 45	[min]
	with Araldite GY 783/Aradur 43-1, 100:60 p.b.w.	ca. 60	[min]
	As-supplied form	Liquid	
	Odour	amine	
	Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	1 year at least	
	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.

<b>Mix ratio</b>	The optimum mix ratio for Araldite GY 783 and Aradur 43-1 is 100 : 60 parts by weight.
<b>Storage</b>	Aradur 43-1 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.
<b>Handling precautions</b>	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.

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