

**Aradur® 830<sup>#</sup>**  
**Aradur® 850<sup>#</sup>**
**Liquid, solvent-free, formulated aromatic polyamine adducts**
**Applications**

When used with any one of a number of liquid Araldite® epoxy resins (e.g. Araldite GY 250, GY 251, GY 253, GY 255, GY 257, GY 260, GY 266 or PY 302-2), the hardener mix 830/ 850 is suitable for the formulation of solvent-free heavy duty anticorrosion coatings and floor toppings.

**Properties**

The reactivity of the hardener mix is readily modifiable within wide limits by varying the ratio of slow-reacting Aradur 830 to highly reactive Aradur 850.

Imparts to coatings and floor toppings:

- excellent resistance to organic acids
- good mechanical properties
- outstanding resistance to abrasion
- smooth, enamel-like, non-tacky film surfaces even if coatings are cured at low temperatures and high relative humidity
- a tendency to discoloration when exposed to chemicals or light.

**Key data**

Specified key data	Aradur 830	Aradur 850	
Aspect (visual)	clear, brown liquids		
Colour (Gardner, ISO 4630)	≤ 10	≤ 12	
Amine number (ISO 9702)	260-285	245-270	[mg KOH/g]
Viscosity at 25 °C (Falling-ball, ISO 12058-1)	3800 - 5800	15000 - 21000	[mPa s]
Gel time from 23 °C (Tecam, BS 5332)	1250 - 1400	15 - 30	[min]

Specified key data are individually checked throughout and guaranteed.

**Typical key data**

H <sup>+</sup> active equivalent weight	114	120	[g/eq]
Density at 25 °C (ISO 1675)	1.11	1.13	[g/cm <sup>3</sup> ]
Flash point (Pensky Martens, ISO 2719)	≥ 190	≥ 152	[°C]
As-supplied form	liquid	liquid	
Odour	slight	slight	
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.

<sup>#</sup> 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	Components				Parts by weight					
	Araldite GY 250	100	100	100	100	-	-	-	-	-
Araldite GY 253	-	-	-	-	100	-	-	-	-	
Araldite GY 255	-	-	-	-	-	100	-	-	-	
Araldite GY 257	-	-	-	-	-	-	100	-	-	
Araldite PY 302-2	-	-	-	-	-	-	-	-	100	
Aradur 830	52	45	30	15	46	45	45	49		
Aradur 850	8	15	30	45	16	15	15	16		
Viscosity at 25 °C (ISO 12058-1)	[mPa s]	8000	9000	11000	12000	2300	6500	1400	6000	
Gel time (Tecam, 100 ml, 20 °C, 65% RH)	[min]	210	120	75	45	300	150	300	150	

**Storage** Hardeners Aradur 830 and 850 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The products should not be stored exposed to direct sunlight.

Crystallized Aradur 830 or 850 can be re-liquefied by heating to 60 to 80 °C while stirring.

**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".

This product must not be swallowed or allowed to come into contact with the skin. Ingestion or absorption through the skin of aromatic amines may cause kidney and liver damage.

Animal experiments have shown that diamino diphenyl methane (DDM) contained in Hardeners Aradur 830 and 850 is carcinogenic. No such effects have been observed in man, but a carcinogenic potential in humans cannot be excluded.

**Note** Aradur® is a registered trademark of Huntsman LLC or an affiliate thereof.

<b>Huntsman LLC</b> <small>®Registered trademark</small>	<p><b>IMPORTANT:</b> The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.</p>
	