

**Araldite<sup>®</sup> PZ 820-1<sup>#</sup>**  
**Aradur<sup>®</sup> 820<sup>#</sup>**

Araldite PZ 820-1 is a 80% solution of a modified epoxy resin of medium molecular weight based on bisphenol-A

Aradur 820 is a 78% solution of a formulated polyamidoamine

**Applications**

Production of solvent-containing primers and topcoats curing at ambient or higher temperatures for metal, mineral substrates, wood or plastics.

**Properties**

- Easy processing.
- Rapid curing at ambient temperature which is greatly accelerated at higher temperatures.
- Excellent adhesion to metallic and mineral substrates as well as to wood and plastics.
- Flexibility and resistance to chemicals variable within wide limits depending on the quantity of hardener.
- Very high surface hardness enabling easy to clean, hygienic surfaces.
- Very good corrosion-protection.

**Key data**

Specified key data	Araldite PZ 820-1	Aradur 820	
Aspect (visual)	clear liquid	clear liquid	
Colour (Gardner, ISO 4630)	≤ 5	≤ 9	
Epoxy index (ISO 3001)	1.52-1.76	-	[eq/kg]
Epoxy equivalent (ISO 3001)	568-658	-	[g/Eq]
Amine number (ISO 9702)	-	208-222	[mg KOH/g]
Solids content (ISO 787-2)	78.5-81.5	76.5-79.5	[%]
Viscosity at 25 °C (Falling-ball, ISO 12058-1)	35000-65000	3800-5400	[mPa s]

Specified key data are individually checked throughout and guaranteed.

**Typical key data**

Solvent	1-methoxy-2-propanol/butanol (75:25)	Xylene/butanol (40:60)	
Density at 25 °C (ISO 1675)	1.15	0.95	[g/cm <sup>3</sup> ]
Flash point (Pensky Martens, ISO 2719)	≥ 34	≥ 36	[°C]
As-supplied form	liquid	liquid	
Odour	yes	yes	
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.

<b>Mix ratios</b>	The properties of the coatings are governed largely by the mix ratio of the components. The limits within which variations are permissible are shown in the following table.			
	<b>Coating composition</b>		<b>Film properties</b>	
	Araldite PZ 820-1 [Parts by weight]	Aradur 820	Flexibility	Chemical resistance
	1	1	highest	Lowest
	2	1	good	medium
	3	1	lowest	highest
<b>Storage</b>	Araldite PY 820-1 and Aradur 820 should be stored separately 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.			
<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 and the brochure "Hygienic precautions for handling plastics products" .			
<b>Note</b>	Araldite® and Aradur® are registered trademarks of Huntsman LLC or an affiliate thereof.			

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