

**Advanced Materials****Aradur® 3986#**

CONSTRUCTION INDUSTRY SYSTEMS  
 SOLVENT-FREE COATINGS  
 WATER-BORNE COATINGS

**DATA SHEET****Modified polyamine adduct dissolved in water**

**Applications** Used with liquid epoxy resins such as Araldite® GY 776, PY 33757 or liquid resin emulsion PZ 33757/67, Aradur 3986 is suitable for the formulation of water-based coatings for application to mineral and metallic substrates.  
 In combination with Araldite PZ 3961-1 also suitable for anti-corrosion primer on steel.

**Properties** Used along with suitable epoxy resins, Aradur 3986 presents the following features:

- Contains no volatile amines or solvents
- light-coloured films with low yellowing under the effect of UV rays
- pot life range up to four hours depending on solids/filler content
- higher solids formulations show visible end of potlife
- very fast drying and hardening due to rapid chemical curing
- no flash rust inhibitor necessary
- good chemical resistance
- very good protection against corrosion

<b>Key data</b>	<b>Specified key data</b>	
	<b>Colour (Gardner, ISO 4630)</b>	<b>≤ 6, slightly opalescent</b>
	<b>Amine index (ISO 9702)</b>	<b>90 - 110 [mg KOH/g]</b>
	<b>Solid content (ISO 3251)</b>	<b>39 - 41 %</b>
	<b>Viscosity at 25 °C (Rotary viscosity, ISO 3219)</b>	<b>15 000 – 35 000 [mPa s]</b>

Specified key data are individually checked throughout and guaranteed.

**Typical key data**

H <sup>+</sup> active equivalent	~ 415	[g/eq]
Density at 20 °C (ISO 1675)	1.06	[g/cm <sup>3</sup> ]
Flash point (Pensky Martens, ISO 2719)	≥ 100	[°C]
As-supplied form	liquid	
Odour	Amine	
Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	3 years 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>	<p>Araldite GY 776 with Aradur 3986 is 100:220 parts by weight</p> <p>Araldite PZ 33757/67 with Aradur 3986 is 100:157 parts by weight</p> <p>Araldite PZ 3961-1 with Aradur 3986 is 100: 42 parts by weight</p> <p>Variation of up to 10 % can be tolerated. An excess of hardener will increase flexibility and adhesion, while improved levels of corrosion protection are achieved with a lower proportion of hardener</p>
<b>Storage</b>	<p>Aradur 3986 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C (temperatures will never be allowed to drop under 0 °C). The product should not be stored exposed to direct sunlight.</p>
<b>Handling precautions</b>	<p>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.</p>

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