
Araldite® PY 340-2[#]

Liquid emulsifiable bisphenol-A/F epoxy resin

Applications**Araldite PY 340-2 is used:**

- mainly for primer coats onto concrete, offering very good wetting
- added minimum 30 % to solid resin emulsions, e.g. Araldite PZ 3961, to improve coalescence of the films, resulting in optimal wetting of the concrete and in a certain reduction of the minimal film forming temperature;
- with reactive diluents for water-washable tile adhesives and grouts (no water added for this application);
- added to Portland cement mortars to improve their properties (epoxy modified concrete);
- for warm-curing industrial coatings.

Hardeners used for coatings:

- Aradur 3980 (very versatile, but only for ambient curing)
- Aradur 3981 (very fast)
- Aradur 340 (very flexible)

for tile adhesives and grouts:

- solvent-free (polyamidoamine hardeners);

for epoxy modified concrete:

- Aradur 3980
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Properties

Contains a non-ionic emulsifier, otherwise unmodified. Offers high hardness, chemical resistance and protection against corrosion. A relatively long cure can be shortened by combining Araldite PY 340-2 with Araldite PZ 3961 and/or Aradur 3981. It is preferable to first make a pigment paste with Araldite PY 340-2 and then emulsify this paste. Very good storage stability of product as supplied, good storage stability of aqueous emulsions. A resin content that is higher than the water content gives relatively high viscosity and so improves stability of the emulsion. Stability of aqueous emulsions can also be optimized by adding Araldite PZ 3961 or Araldite PZ 3962. Emulsions are best made by slowly adding water to the resin whilst mixing. Excessively low or high temperatures, high shear forces and some additives can break this emulsion. Storage at sensible temperatures, pigmentation of the hardener component and proper choice of additives will avoid problems with emulsions. Same gloss at all dilutions. Gloss decreases when pot life has expired. End of pot life is not visible, as viscosity does not change. Flexibility is limited, except with Aradur 340. Adhesion is always good on mineral substrates, on metal only with Aradur 3980 and particularly with Aradur 340.

[#] 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.

Key data	Specified key data			
	Aspect (visual)	clear liquid		
	Colour (Gardner, ISO 4630)	≤ 3		
	Epoxy index (ISO 3001)	5.50 - 5.80	[Eq/kg]	
	Epoxy equivalent (ISO 3001)	172 - 182	[g/Eq]	
	Viscosity at 25 °C (Falling-ball, ISO 12058-1)	6000 - 8000	[mPa s]	
Specified key data are individually checked throughout and guaranteed.				
	Typical key data			
	Density at 25 °C (ISO 1675)	~ 1.19	[g/cm ³]	
	Flash point (Pensky Martens, ISO 2719)	≥ 135	[°C]	
	As-supplied form	liquid (100%)		
	Odour	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 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.				
Mix ratios	Components		Parts by weight	
	Araldite PY 340-2	1000	1000	1000
	Aradur 3980	1130	-	-
	Aradur 3981	-	820	-
	Aradur 340	-	-	1200
	Titanium dioxide RTC 4 (TIOXIDE)	1192	1037	1000
	Deionized water	1838	1633	3300
	Pot life (gloss not decreased more than 10%)	[h]	5	1.5
	Dust dry time	[h]	>12	3
	Persoz hardness (ISO 1522) after 1 day	[s]	150	300
	Distensibility (Erichsen) after 2 weeks	[mm]	<1	<1
	Tests at 20 °C, 65% RH.			
	Stoichiometric mix ratios used. Less hardener, 80 to 85 % of stoichiometric, improves resistance to water and corrosion.			
Storage	Araldite PY 340-2 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	Araldite® is a registered trademark of Huntsman LLC or an affiliate thereof.			

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