

## Aradur<sup>®</sup> 39 Hardener

### Product Description

Aradur<sup>®</sup> 39 Hardener is a waterborne amine curing agent designed for use in formulating two component ambient cured coatings without the use of volatile organic compounds (VOC). It is supplied as 50 % solids in water and does not contain organic solvents. Aradur<sup>®</sup> 39 may be diluted with water down to 30% solids (wt.), but may become hazy. Aradur<sup>®</sup> 39 is not suitable for combination with solid resin dispersions due to insufficient coalescence of the cast films. In combination with liquid epoxy resins (i.e. Araldite<sup>®</sup> GY 9513 or PY 340-2), zero-VOC, fast drying and curing films with good flow and adhesion can be formulated.

### Applications

- Water reducible, zero-VOC coatings
- Zero-VOC adhesives
- Civil engineering

### Features

- Does not contain organic solvents
- Fast drying and curing even at temperatures below 10°C with adequate ventilation
- Combination of good flexibility and fast cure
- Long pot life (typically 3-4 hours)
- Very low odor
- High gloss finish
- Good flow properties
- Good adhesion

### Typical Properties\*

Property	Aradur® 39
Appearance	Clear or slightly hazy colloidal solution
Color, Gardner, max	5
Amine value, mg KOH/g	120 - 140
H <sup>+</sup> active equivalent, g/eq	330
Viscosity @ 25°C, cP	12,000 - 20,000
Density @ 25°C (77°F), g/cm <sup>3</sup>	1.07
Flash point, closed cup, °C (°F)	>93 (>200)
Solids content, wt %	50 ± 1.0
Solvent	Water

\*Typical properties are based on Huntsman's test methods. Copies are available upon request.

### Processing

To obtain optimal properties Aradur® 39 must be correctly formulated for the particular application and the type of resin used. Starting point formulations are available. In general, deviations in the mix ratio of Aradur® 39 with Araldite® epoxy resins may result in greater flexibility and adhesion in higher proportions (up to 10% by weight).

### Storage

**Aradur® 39 Hardener** is supplied in 440 pound drums. It should be stored in a dry place, in the sealed original container, at temperatures between 2°C and 40°C (36°F and 104°F). Under these storage conditions, the product has a shelf life of **3 years** (from date of manufacture). The product should not be exposed to direct sunlight.

## **Precautionary Statement**

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

### **First Aid!**

Refer to SDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN**

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