

Accelerator 2950

Product Description

Accelerator 2950 is an effective accelerator and/or co-hardener when used in combination with polyamines, polyamidoamines and their adducts. It is used to cure liquid epoxy resins such as ARALDITE® GY 6010 resin, ARALDITE®PY 302-2 resin, or similar resins for solvent-free coatings and flooring systems. It is also used to cure solid epoxy resins or their solvent cuts such as ARALDITE® GZ 571 KX 75 resins for solvent containing marine and maintenance coatings. Accelerator 2950 is also an effective accelerator and co-hardener in polyurethane systems when used at 1-3% on binder.

Applications

In solvent free coatings:

- At low use levels, Accelerator 2950 produces the same effect as the industry standard tertiary amine such as Accelerator 960-1
- At high use levels, e.g., 20 phr, Accelerator 2950 increases cure speed dramatically and coatings are open to foot traffic after 24 hours at 5°C

In solvent containing coatings:

- At low use levels, Accelerator 2950 produces the same effect as Accelerator 960-1 but nearly twice the pot life
- At high use levels, Accelerator 2950 give the same effect as in solvent free coatings

In polyurethane systems:

- More dramatic results than in epoxy systems
- Extremely short de-molding times for tooling systems

Features

- Co-hardener when used with polyamine, polyamidoamines and their adducts
- Good compatibility with amine hardeners
- Effective accelerator and co-hardener in polyurethane systems
- Good for low temperature and waterborne systems

Typical Properties*

Property	Value
Appearance	Pale yellow liquid
Color, Gardner, max	10
H ⁺ active equivalent weight, g/eq	~ 75
Amine value, mg KOH/g	640 - 700
Viscosity @ 25°C, cP	2000 - 6000
Density @ 20°C, g/cm ³	0.99, 8.3
Flash point, closed cup, °C	> 110

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

Processing Data

Accelerator 2950 as a Co-hardener in Epoxy System

Product/Property	Formulation 1	Formulation 2
ARALDITE® GY 6010 Resin, ¹ pbw	100	-
ARALDITE® GZ 571 KX 75 Resin, ² pbw	-	100
Accelerator 2950, pbw	39	13
Gel time, ³ 100 g, 23°C, min	23	40
Cure-through time, ⁴ h @ 25°C / 50% RH @ 5°C / 80%	1.0 2.5	1.5 4.5
Film appearance ⁴ @ 25°C / 50% RH @ 5°C / 80%	Glossy Glossy	Glossy Glossy
Blushing ⁵ @ 25°C / 50% RH @ 5°C / 80%	None Slight	None None

¹Standard bisphenol-A liquid epoxy resin (epoxy equivalent weight: 182 – 192)

²Solid bisphenol-A epoxy resin solution (epoxy equivalent weight: 450 – 530)

³Tested by TECAM® gelation timer

⁴Tested by Gardner® Circular Drying Time Recorder on a 10 mil wet coating

⁵Visual

Accelerator 2950 in Polyamidoamine, Solvent-based Coating

Product/Property	Formulation 1	Formulation 2	Formulation 3
ARALDITE® GZ 571 KX 75 Resin, pbw	100	100	100
ARADUR® 815-2 Epoxy Curing Agent	38	38	38
Accelerator 960-1	-	1.4	-
Accelerator 2950, pbw	-	-	0.7
Xylene / n-butanol (4:1)	72	65	70
Gel time, 100 g, 23°C, min	360	90	120
Dry-through time, h @ 25°C / 50% RH	7.0	6.0	5.0
Film appearance @ 25°C / 50% RH	Glossy	Glossy	Glossy

Storage

Accelerator 2950 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 shelf life is **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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Important Legal Notice

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer's documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

ARALDITE® AND ARADUR® are registered trademarks of Huntsman LLC or an affiliate thereof in one or more, but not all countries.

© 2019 Huntsman Advanced Materials Inc.

Main Offices:

Huntsman Corporation
10003 Woodloch Forest Dr
The Woodlands, TX 77380
888-564-9318

Huntsman Advanced Technology Center
8600 Gosling Rd.
The Woodlands, TX 77381
281-719-7400