

Accelerator DT 3130

Product Description

Accelerator DT 3126-2 is an effective catalyst for the formulation of epoxy / polyester hybrids and polyester / TGIC powder coatings.

Features

- Minimal or no effect on gloss, gloss retention, storage stability, color and color retention, mechanical properties and chemical resistance

Typical Properties*

Property	Value
Appearance	White to off white powder
Softening point, °C	100 - 110
Gel time @ 200°C, sec.	50 - 70
Density @ 25°C, g/cm ³	1.06

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

Processing

Depending on the type of polyester resin being used, optimal cure acceleration is achieved by adding DT 3126-2 at the following levels:

System	Accelerator Value
Epoxy / polyester hybrid systems	1 - 4% on binder
Polyester / Araldite [®] PT 810 systems	1 - 2% on binder

Below are shown values for gel times of unpigmented powder coatings formulated with and without Accelerator DT 3126-2.

Polyester / Araldite® GT 7014 (Hybrid) Systems

Product/Property	Mix Ratio (pbw)	Gel time @ 180°C, s without Accelerator DT 3126-2	Gel time @ 180°C, s with 2 wt. %* Accelerator DT 3126-2
Crylcoat 314 ¹	50:50	120	75
Crylcoat 316	70:30	210	135
Crylcoat 341	50:50	195	98
Uralac P 2695 ²	50:50	675	110
Uralac P 2998	50:50	261	80
Uralac P 2127	50:50	88	58

Polyester / Araldite® PT 810 (TGIC) Systems

Product/Property	Mix Ratio (pbw)	Gel time @ 180°C, s without Accelerator DT 3126-2	Gel time @ 180°C, s with 1.2 wt. %* Accelerator DT 3126-2
Uralac P 3500	93:7	240	120
Uralac P 3400	93:7	350	170
Uralac P 2400	93:7	120	70
Crylcoat 320	93:7	100	75
Crylcoat 430	93:7	180	120

¹UCB

²DSM

*based on binder

Typical Physical Properties of Formulations

Unless otherwise stated, the data were determined with typical production batches using standard test methods. They are typical values only, and do not constitute a product specification.

Below are shown the typical properties of pigmented epoxy / polyester and polyester / Araldite PT 810 systems with and without Accelerator DT 3126-2.

Product/Property Formulation number	Epoxy-Polyester		Polyester-TGIC	
	1	2	3	4
Crylcoat 329	50	50	-	-
Araldite® GT 7014	45	45	-	-
Araldite® GT 7226	5	5	-	-
Uralac P 3400	-	-	93	93
Araldite® PT 810	-	-	7	7
Accelerator DT 3126-2	-	2	-	1.6
Titanium Dioxide	50	50	50	50
Gel pick-up time @ 180°C, sec	100	56	340	130
Thickness, mil	2.4 ¹	2.4 ¹	- ²	2.0 ²
Erichsen, mm	9.5 ¹	10 ¹	- ²	10 ²
Impact, in.-lbs	30 ¹	160 ¹	- ²	160 ²
Thickness, mil	2.4 ³	2.4 ³	2.0 ⁴	2.0 ⁴
Erichsen, mm	6 ³	10 ³	10 ⁴	10 ⁴
Impact, in.-lbs.	<20 ³	160 ³	140 ⁴	160 ⁴

¹Cured @ 160°C, 15 min

²Cured @ 160°C, 25 min

³Cured @ 140°C, 20 min

⁴Cured @ 180°C, 12-15 min

Storage

Accelerator DT 3126-2 is supplied in 50 pound bags. 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 shelf life is **3 years** (from date of manufacture).

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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