

Cargill Altor® 201 polyaspartic ester

Product Description

Altor® 201 polyaspartic ester is a fast reacting, low-color, solvent-free, amine-functional co-reactant for polyisocyanates. Altor® 201 polyaspartic ester was developed for high-solids, two-component polyurethane and urea coatings. The Altor® products can be applied direct to metal as one-coat solutions in environments with low to moderate protection needs. For extreme environments, the polyaspartic coating can act as the intermediate and topcoat in one layer, increasing productivity and reducing operation costs.

Altor® 200 or Altor® 202 products can be blended with Altor® 201 polyaspartic ester to obtain customized work and dry time characteristics when formulating high-solids polyurea topcoats. For polyaspartic products, humidity and substrate moisture control is crucial as water accelerates curing.

Applications

- Concrete coatings
- Infrastructure steel surfaces
- Railcar exterior coatings
- Cleanroom coatings
- Institutional coatings
- Flexible roof coatings
- Windmill coatings – towers & blades

Advantages

- Low color
- Low VOC
- UV and chemical resistant
- Compatible with many polyisocyanates and prepolymers
- Fast curing and return-to-service

Typical Properties

	TYPICAL VALUE	UNIT OF MEASURE
Color	25	APHA
Moisture	0.05	%
Viscosity @ 25°C	900-1500	cP
Density @ 25°C	8.9	lb/gal
Amine Value	201	mg KOH/g sample
Amine Equivalent Weight	275	AEW

Performance Properties

	TYPICAL VALUE 72°F / 25% REL. HUMIDITY	TYPICAL VALUE 75°F / 50% REL. HUMIDITY
Gel Time (min)	34	26
Work Time (min)	10	8
Dry time, tack-free (min)	105	30
Dry time, walk-on (min)	155	35
Hardness, 10 mil, 24 hr (König)	167	171
Hardness, 10 mil, 48 hr (König)	168	172

Note: Data is based on lab testing performed with HDI hexamethylene diisocyanate (NCO content 22.5-23.9%).

Example Custom Blend Properties

Altor® 201 / Altor® 202	70% / 30%	50% / 50%
Gel Time (min)	37	45
Work Time (min)	10	15
Dry time, tack-free (hr)	1	10
Dry time, walk-on (hr)	1.5	11

Note: Data is based on lab testing performed at 75°F / 50% relative humidity with HDI hexamethylene diisocyanate (NCO content 22.5-23.9%).

Compatibility

Altor® 201 polyaspartic ester is compatible with most polyisocyanates, however, compatibility testing prior to large-scale application is recommended to ensure safe use.

Packaging, Storage, and Handling

Product is available in drums and totes. Keep away from extreme heat, cold, and moisture. Please refer to the product's safety data sheet for shipping, safety, and handling.

Note: It is recommended that opened drums use a desiccant tube in the bleed bung and are covered with a nitrogen blanket if the drum will be stored as a partial for later use.

Shelf Life

The recommended shelf life is 12 months in unopened containers maintained at a proper storage temperature of 25°C.

Environmental and Safety

Please refer to the product's safety data sheet.

If you have further questions do not hesitate to **reach out to your local representative.**

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