Cargill Altor® 205LV polyaspartic ester

Product Description

Altor® 205LV polyaspartic ester is a low viscosity, low color, amine-functional co-reactant for polyisocyanates, designed as a ready-to-use, solvent-free system, delivering optimal work and dry time characteristics, and excellent film appearance. The high-solids, UV and chemical resistance, and other properties of polyurea systems are maintained without the requirement of solvents. 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® 205LV polyaspartic ester can be blended with Altor® 202 product for further customization. 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

- Lower viscosity versus similar products
- Low color
- Low VOC
- UV and chemical resistant
- Compatible with many polyisocyanates and prepolymers
- Optimal curing and return-to-service

Typical Properties

	TYPICAL VALUE	UNIT OF MEASURE
Color	30	APHA
Moisture	0.05	%
Viscosity @ 25ºC	200-500	cP
Density @ 25ºC	8.8	lb/gal
Amine Value	197	mg KOH/g sample
Amine Equivalent Weight	283	AEW

Performance Properties

	TYPICAL VALUE 72°F / 25% REL. HUMIDITY	TYPICAL VALUE 75°F / 50% REL. HUMIDITY
Gel Time (min)	60	53
Work Time (min)	13	10
Dry time, tack-free (min)	90	95
Dry time, walk-on (min)	130	105
Hardness, 10 mil, 24 hr (König)	155	166
Hardness, 10 mil, 48 hr (König)	155	167

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

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Example Custom Blend Properties

Polyaspartic Ester Blends	Altor® 205LV 70% Altor® 202 30%	Altor® 205LV 60% Altor® 202 40%
Gel Time (min)	72	85
Work Time (min)	15	20
Dry time, tack-free (hr)	3.2	4
Dry time, walk-on (hr)	3.75	5.2

Polyaspartic Ester Blends	Altor® 201 70% Altor® 202 30%	Altor® 201 50% Altor® 202 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® 205LV polyaspartic ester is compatible with many 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.**