

Altor™ 205 Polyaspartic Ester

Product Description

Altor™ 205 is a patent-pending, 100% solids, UV resistant polyaspartic ester that maintains excellent cured film properties while increasing the pot life/working time when cured with an aliphatic polyisocyanate.

TYPICAL PROPERTIES

Altor 205 Polyaspartic Ester	Typical Value	Methods
Color, APHA	<150	ASTM D1544
Moisture, %	0.10 Max	ASTM F1869
Viscosity @ 25°C, cP	1258	ASTM D445-83
Equivalent Weight	Approx. 275	ASTM D1652-97
Density @ 25°C, lb/gal	8.96	ASTM D1475-13
Amine Value, mg KOH/g sample	201	ASTM D2074-07
Gel Time, minutes	60	ASTM D2471-71

-Data is based on testing performed with hexamethylene diisocyanate (NCO content 22.5-23.9%)

Advantages

- Allows you to cover more area with each batch because of longer pot life/working time
- Quick cure time for fast return to service
- Improved hardness development with flexibility; toughness
- Improved chemical resistance with MEK and hydraulic fluids
- Stain, scratch and mar resistant

Applications

- Concrete coatings
- Primed steel surfaces
- Exterior railcar coatings
- Clean room coatings
- Institutional coatings
- Windmill coating

Recoating Note: The recoat window for a polyaspartic chemistry coating is typically very short (3-4 hours). After this time, the coating would need to be sanded in order to successfully apply a second coat.

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Technical Data Sheet

PERFORMANCE DATA

Application Testing	Altor 205	Industry Standard*	Methods
Set to Touch (min)	8.4	9	ASTM D5895-03, D3924-80
Tack Free (min)	15	25	ASTM D5895-03, D3924-80
Dry Hard	17.3 minutes	8 hours	ASTM D5895-03, D3924-80
Dry Through	23.4 minutes	12 hours	ASTM D5895-03, D3924-80
Elongation (Average (n=3), %)	42 +/- 4.9	30.25 +/-5.3	ASTM D52293a, D3924-80, D609
Double Rub Resistance (Methyl Ethyl Ketone), Resistance Rating	5	5	ASTM D4752-03, D3924-80, D609
Double Rub Resistance (Skydrol) Resistance Rating	5	4	ASTM D4752-03, D3924-80, D609
Direct Impact Testing (Average n=10), in.-lbs	50	35	ASTM D2794-93, D609
Pencil Hardness (No Scratch)	2H	H	ASTM D3360, D3294-80, D609
Pencil Hardness (No Gouge)	No Gouge	5H	ASTM D3360, D3294-80, D610
60° Gloss Retention @ 1500 hrs, %	92.51	92.35	ASTM G154 – Cycle 2, QUV B
Δ yellow @ 1500 hrs, L x A x B Color space, Δ B	1.02	0.99	ASTM G154 – Cycle 2, QUV B

*Typical blend of 2:1 parts by weight of a 25-minute and 420-minute aspartic ester.

Typical Formulation

- Per 100lbs of Altor 205, use 68.55lbs of HDI Trimer
- Leveling, air release, and surface additives can be added to the product as needed
- Indexing information: The active isocyanate content (NCO content) is charged in a 1.05:1 (NCO: Altor 205) molar excess.

Storage

The recommended shelf life is 12 months in unopened containers maintained at a proper storage temperature of 25°C. Keep away from extreme heat, cold, and moisture.

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.

Handling Precautions

Please refer to the products material safety data sheet for shipping, safety, and handling.

Packaging

Altor 205 is available in drums, totes, and bulk quantities available upon request.

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