



7000 Polyaspartic 85 Rapid Cure

Technical Data Sheet

Product Description

Polyaspartic 85 Rapid Cure is the next generation in two component, fast drying, modified urethane. While other urethanes can only be applied between 2 and 3 mil, 7005 can be applied in a single coat up to 12 mil. 7005 features good abrasion and chemical resistance, and a cure time of four to six hours. It can be installed in extremely high or low temperatures. 7005 is the ideal product when low odor, fast turnaround and a non-yellowing system are essential. Advantages:

- Low odor
- Abrasion resistant
- Non-yellowing
- Chemically resistant
- 0 VOC
- Easy mixing ratio (1:1)
- Can be Installed over Wood, Concrete, and Metal
- **Fast drying (4-6 hour cure)**
- Flexible

Applications

- Pharmaceutical
- Food Prep/Kitchens
- Garage Floors
- Restrooms
- Manufacturing plants
- Aisle ways
- Clean rooms
- Auto showrooms
- Schools
- Laboratories
- Basements
- Kennels
- Veterinary facilities
- Locker rooms
- Ramps
- Health Care facilities
- Loading docks
- Car wash facilities

Colors

7005 is available as a clear base. The following reactive pigment packs can be added:

- Sand Beige
- Mocha
- Med Gray
- Dark Gray
- Custom

Packaging

	Part A	Part B
2 Gallon Kit	1 gal.	1 gal.
4 Gallon Kit	2 gal.	2 gal.
10 Gallon Kit	5 gal.	5 gal.

Typical Properties

PROPERTY	VALUE
Appearance	Clear Liquid
Total Solids (% by Weight)	85
Total Solids (% by Volume)	85
Surface Tension, Dynes/cm	40
Viscosity (Brookfield LVF), cps @ 25° C	600
Density (lbs/gallon)	8.32
Specific Gravity	1.0
Flash Point (C Pensky-Martens closed cup)	<70
Freeze/Thaw Stability	N/A
Thermal Stability (28 days @ 52° C)	No Effect
Mechanical Stability	Good
VOC (g/l)	0
VOC (by Weight)	0
Tg (C)	66
Tensile Strength, psi	7000
Elongation	8%

Film Properties

PHYSICAL PERFORMANCE PROPERTIES OF DRY FILM
All tests were conducted on 2.0 to 2.5 mil films, and air-dried for seven days at room temperature.

PROPERTY	VALUE
Hardness (Pencil / Sword)	2H / 70
Taber Abrasion (mg loss per 1000 cycles, CS-17 wheel, 1000 load)	90
Impact Resistance (Direct / Reverse)	140 / 140 (lbs)
Crosshatch Adhesion (Untreated Cold Rolled Steel / Untreated Aluminum)	100% / 100%

QUV WEATHEROMETER (ALCLAD ALUMINUM 1000 HRS.)

PROPERTY	VALUE
Oxidation	No Effect
Loss of Gloss	Slight

Blistering	No Effect
Yellowing	No Effect

CHEMICAL RESISTANCE: 7-DAY SUBMERSION

PROPERTY	VALUE
Brake Fluid	No Effect
Transmission Fluid	Slight Discoloration
Coolant	No Effect
Power Steering Fluid	Slight Discoloration
Battery Acid	Damaged
MEK	<200 Double Rubs
Acetone	<200 Double Rubs
Formula 409	<200 Double Rubs

Physical Properties

Volumetric Ratio:	1 to 1
Coverage:	200 SF/Gal @ 8 mil
Application temperature:	35-100°F
Thinning:	Not required
Pot life:	15-20 minutes
Working time on floor:	15-20 minutes
Cure time:	4-6 hours
Critical recoat time:	12 hours
Shelf life:	12 months
USDA Food & Beverage:	Meets requirements

Concrete Preparation

Before coating is applied, concrete must be:

- Dry – No wet areas
- Clean – Contaminants removed
- Profiled – Surface etched
- Sound – All cracks and spalled areas repaired

Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying and scabbling are all acceptable methods.

Patching

Void, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Patch concrete with Easy Patch. After the patching material is cured, diamond grind patch. If a non-patching material is used, contact a technical representative for a compatible and approved alternative.

Testing

All surfaces are not the same. It is recommended that a sample area be done before the start of the project. The test should be done on-site, using the proposed method by the assigned applicator to insure proper adhesion and color. A sample area should also be done on any existing coatings to determine if any contaminants exist or if delaminating will occur.

Mixing

The ratio of 7005 is 1 to 1. 1 part A (resin) to 1 part B (hardener). Generally, one mixed gallon of 7005 is ideal for application. Mix the following with a stir stick.

Note: If using a drill mixer, use a low speed to prevent air entrapment.

1. Pour out 1/2 gallon of Part A into a clean bucket.
2. Add 1/2 gallon of Part B and mix for 2 minutes.

**Do not store product in direct sunlight

Application Instructions

Certification is required. Please call to schedule training courses.

Clean-up

While in an un-reacted state, may be cleaned up with water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening. Lastly, a strong solvent like methylene chloride may be required if resin is nearly set up.

Product Limitations

Ground level concrete slabs emit invisible moisture vapor. The allowable moisture emissions for concrete are 3 lbs / 1,000 SF over a 24 hour period. If moisture is above this level, then blistering and delamination of coating may occur. A calcium chloride test should be performed to determine concrete moisture level. If moisture levels exceed the 3 lb. limit, a concrete moisture vapor control system should be used first before applying coating system. Please contact the technical department for approved systems.

Coating systems are susceptible to cracking if the concrete moves or separates below the coating. Hence, joint and crack treatment should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should be saw cut or chased first then filled with Easy Patch or similar approved hard epoxy product. Construction joints (two slabs which meet and hence move) should be treated. After the coating has been applied and cured, saw cut through the coating over construction joints and apply an elastomeric caulking.

Warranty

Products are warranted for one year after date of application. Please refer to the Limited Material warranty for additional clarification.

Safety

Consult material safety data sheet. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.