GRANICRETE POLY UA-73

Product & Technical Information Data

DESCRIPTION:

This Polyurea-Polyaspartic sealer is a two component high solids (73%) quick drying sealer that has excellent UV resistance, scratch, and chemical resistance and cures as quickly as 2-hours.

KEY BENEFIT:

This Polyurea-Polyaspartic hybrid coating has many of the high build properties and durability of epoxies but is much more flexible, scratch resistant, and does not yellow when exposed to sunlight. Its flexibility for elongation (stretching) over expanding-contracting concrete slabs helps prevent it from cracking compared to other sealers.

USES:

For moderate to severe chemical environments
May be applied directly over decorative paint chips for epoxy floorings.
May be appplied directly over epoxy floorings.
Used as sealer directly over plain concrete, Granicreteõs textures, and stained concrete,

Applications: Industrial and Garage Epoxy Floors, Decorative Floors, Food Processing Facilities and Restaurants, Automotive Garages, and other moderate to high traffic areas.

ADVANTAGES:

- SCAQMD (California VOC Compliant)
- Chemical Resistant
- Color and Gloss Retention
- Impact & Abrasion Resistant
- Low Solvent Smell
- Meets USDA requirements as top coat for flooring, walls, and ceiling.
- Fast Dry Time
- **Walk on 6 Hours, Drive on 36 Hours**

FINISH:

High Gloss ï High Build

COLOR:

Clear

COVERAGE:

200-300 sq ft per gal over smooth surfaces
200-250 sq ft per gal over rough surfaces

PACKAGING:

1 gallon kits premeasured with ½ gallon of Isocyanate A and ½ gallon of Resin B in 1 gallon cans

10 gallon kits premeasured in two 5 gallon pails

PRE-APPLICATION INSPECTION:

1. Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion.
2. The concrete should be at least 2500 psi and feel like 30-grit sandpaper.
3. The concrete should be porous and be able to absorb water.
4. A minimum of 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 70% (per ASTM F-2170).
5. All moisture should be kept away a min. of 72hrs before application and a min. of 72 hours after installation. This includes sprinklers, rain, fog, dew, etc. Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for a floor coatings installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, *Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained. A rate of 3.5lbs/1000 ft^2/24hr period or less is an acceptable amount of vapor pressure for a polyurea installation.
6. Before starting flooring work, test existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts have a tendency to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide range pH paper or tape. Make sure the floors pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is ran, and cannot be used to predict long-term conditions.
7. Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the Certified Installer and Granicrete International bears no responsibility for failures due to any of the above conditions.

SURFACE PREPARATION:

Over Concrete: Concrete should be mechanically profiled by shot blasting or diamond grinding. When using other methods or scarification, make sure it is roughed to feel like 30 grit sandpaper and so that it is porous and contaminant free so the product can soak in and properly bond.

Over Less than 24-Hour Epoxy or WB IR67: Apply directly over new epoxy WB IR67 within 24 hours of initial application.

Over 24-Hour Epoxy or WB IR67: When applying over existing epoxy or WB IR67 that has been cured for longer than 24 hours, sand the surface with 100 grit sand paper, remove debris and wipe with acetone just before new application.

THINNING:

No thinning is necessary.

MIXING:

1. Use a mechanical mixer (Jiffy Mixer) **at low to medium speeds**. No thinning is necessary.
2. A-Side and B-Side should be **re-mixed in their individual containers first**.
3. Then add 1 part of the A-Side to 1 part of the B-Side.
4. Mix until a homogeneous mixture and streak-free appearance is attained for (approximately 3 minutes). Use care to scrape the sides of the container to ensure that no unmixed material remains

APPLICATION

- May be squeegeed, rolled or brushed.
- Apply product within 24 hours after previous coating is applied.
- Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush or trowel. Leave remaining material in bucket and spread evenly using a 3/8ònon-shedding nap roller cover beginning near the cut in area.
- Apply quickly and avoid over-rolling, as product will begin to ñtack-upòas it begins to cure.
- Re-coat if needed *within* 24 hours of application to insure adhesion. If a delay occurs, it is recommended that the surface be sanded and wiped clean with acetone before reapplication.

DRYING TIME:

Cures as quickly as 2-hours.

HANDLING PRECAUTIONS:

See MSDS before use.

SLIP AND FALL PRECAUTIONS:

Slip additives may be used per manufacturer instructions.

LIMITATIONS:

- Apply only on flooring with moisture vapor pressure under 3.5lbs / 1000 sq. ft. / 24-hr period.
- Do not apply in temperatures below 50°F or above 90°F.
- Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on damp or moist surface as product will whiten and may cause delamination.
- Opened material must be used within 2 days.
- 1 gallon must cover at least 200 sq. ft. to properly cure.

CLEAN UP:

Equipment should be cleaned with environmentally safe solvent immediately after use.

TECHNICAL DATA:

	Test Method	Results
Shelf Life		6 months
Mixing Ratio by Volume		A:B 1:1
Dry Film Thickness per Coat:	ASTM D-3363	4-7 mils
Tear Resistance DIeC	ASTM D-1004-66	270 pli
Tensile Strength	ASTM D-412	3980 psi
Ultimate Elongation	ASTM D-412	8-10%
Gloss (60 deg)	ASTM D-823	90
Volume Solids	ASTM D-2697	73% by volume
VOC	ASTM D 2369-81	<50 g/l
Pot Life		(75±3oF) 30 minutes
Recoat Time		7 hrs (min) -24 hrs (max)
Taber Abrasion	ASTM D-4060-84	33.9 mg Loss, C17 Wheel, 1000g Load, 1000 Cycles
Impact Resistance	ASTM D-2794-84	Inch-pounds Direct 120 Inch-pounds Reverse 90
Pencil Hardness	ASTM D-3363-84	2-H
Pendulum Hardness	After 1 Day	43 Seconds
	After 7 Days	168 Seconds
Viscosity at 75 F(24 C) 50% RH		A-SIDE 350-400 cps B-SIDE 200-300 cps
Weight		A-SIDE 9.9 lbs/gal B-SIDE 9.2lb

14 Days Cured	**4 hrs**	**24hrs**
50% Sulfuric Acid	Slight Soften	Blister
10% Sulfuric Acid	No Effect	No Effect
10% Hydrochloric Acid	No Effect	No Effect
50% Ammonium Hydroxide	No Effect	No Effect
50% Sodium Hydroxide	No Effect	No Effect
IPA - Iso-Propyl Alcohol	No Effect	No Effect
MEK - Methyl Ethyl Ketone	No Effect	No Effect
Deionized (Water)	No Effect	No Effect
10% Betadine	No Effect	No Effect

Break Fluid	No Effect	No Effect
Gasoline	No Effect	No Effect

MAINTENANCE AND RE-SEAL:

Cleaning the cured Poly UA-73 is best done by mopping surface with mild soap and water or a mild detergent. For best appearance, recommended resealing the surface every 3-4 years should be considered.

Reseal by lightly sanding existing coating, cleaning surface with acetone, and applying over dry surface using above application specifications.

This product is for use by Granicrete Independent applicators only. Wear Personal Protective Equipment. Read MSDS before using this product.

DOT/Flash Point – Flammable Liquid Classification, regulated.

Manufacturer/Distributor Warranty: As neither the manufacturer nor the distributor has control over the actual installation of this product, the manufacturer and distributor disclaim any and all warranties expressed or implied regarding color shade, appearance, and product performance at and after opening product containers. Manufacturer and distributor recommendations and suggestions are made without guarantee. Conditions of installer's and consumer's use of this product are beyond the control of manufacturer and distributor. Manufacturer and distributor disclaim any liability incurred in connection with the use of this product or information contained herein.