

# **TECHNICAL DATA SHEET**

### Chemical Resistant Coating 1620

### FEATURES

- High build, 100% solids Novolac epoxy coating
- Resistance to harsh chemicals, including sulfuric acid
- Can be used as a topcoat over epoxy and polyurethane coatings.
- Hard wearing surface
- Chemical resistant
- 100% Solids system
- Liquid applied
- Solvent free; nearly odor-free application

### HOW TO USE

### Preparation

- 1. Surface must be clean, structurally sound, and fully cured 28 days.
- 2. Mechanically profile the surface of both old and new concrete by shot blasting, and then remove dust by vacuuming.

### Mixing

- 1. Thorough stir each separate component (epoxy resin Part A and the hardener Part B before mixing the 2 components together.
- 2. The mix ratio by volume is 2 parts resin (Part A) with 1 part hardener (Part B). Combine 1 part hardener (Part B) with 2 parts resin (Part A) in a clean, suitably sized container. Scrape the sides of the containers to remove as much material as possible to ensure accurate mixing ratio.
- 3. Mix the components together using a slow-speed (400 600 rpm) drill with Jiffy mixer for at least 3 minutes until uniform in color with no streaks of color in the mixture.

### As a trowel-down topping

- 1. After mixing, slowly add 2 3 parts clean, dry sand by volume to 1 part mixed 1620 by volume.
- 2. Trowel or screed the sand-modified 1620 to desired thickness (minimum 1/4" or 6 mm).

### AS A COATING FOR CONCRETE SUBSTRATES

- 1. Apply the mixed product to the clean, primed surface by roller or brush. Use the shortest nap roller suitable for the prepared substrate profile.
- 2. Backroll the coating to ensure good wetting of the substrate, uniform thickness of the coating, and removal of any roller marks.
- 3. Apply two 20-mil coats at the rate of 80 ft<sub>2</sub>/ gallon per coat.
- 4. To make the coating slip resistant, broadcast clean, dry sand into the first coat while it is wet. Apply sand to the point of saturation (approximately 80 lbs/100 ft<sub>2</sub> When coating is drying, sweep excess sand and apply the second coat of 1620.
- 1. 5. Recoating must be done within 24 hours at 70° F (21° C). After 24 hours, mechanically abrade the entire surface of the coating and clean with acetone or xylene. Allow 1620 to dry and reapply the coating within 1 hour



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### AS A TOPCOAT FOR EPOXY OR POLYURETHANE FLOOR AND WALL COATINGS

1. When applying 1620 over an existing coating, first conduct a test application.

- 2. Lightly sand the surface with medium sandpaper or a 60 80 mesh 3M screen back. Vacuum up all dust and solvent wipe floor with acetone. Allow to dry.
- 3. Apply the 1620 within 1 hour and according to application instructions.

Typical Properties		Test Data*		
PROPERTY	VALUE	PROPERTY	RESULTS	TEST METHODS
Tack free time, hrs, 4 – 6 at 75° F (24° C)		Mixed viscosity, cps, at 75° F (24° C)	4,000	ASTM D 2393
Initial cure, hrs, at 75° F (24° C)	24	Pot life, min, at 75° F (24° C)	30 - 35	ASTM D 2471
Light traffic, hrs, at 75° F (24° C)	16	Bond strength,psi (MPa), 14 day moist cure	2,640 (18.2) 100% concrete failure	ASTM C 882
Full chemical resistance,	7	Compressive strengthpsi (MPa)	14,300 (99)	ASTM D 695
days, at 75° F (24° C)	2012/00/07	— Tensile strength,psi (MPa)	5,700 (39)	ASTM D 638
Mix ratio, by volume	2 to 1	Tansila alongstion%	3_4	ASTM D 638
Application temperature range,	50 - 120	cured 7 days at 75° F (24° C)	-9-5-R	-Admin 2000
~FCQ	(10 – 49)		85 - 87	ASTM D 2240
Service temperature range, ° F (° C)	50 - 90 (10 - 32)	Abrasion resistance, L/mil coating	40	ASTM D 968
50157G	- 52 - 52	and the second		

\* 7 day cure at 70° F (21° C) and 50% relative humidity

All application and performance values are typical for the material, but may vary with test methods, conditions, and configurations.

#### Chemical Resistance\*

Based on 7-day immersion test at 70° F (21° C)

CHEMICAL	RESULTS	
Hydrochloric acid 50%	Begular contact	
Hydrofluoric acid, 50%	Regular contact	
Nitric acid. 25%	Occasional contact	
Sulfuric acid. 10%	Regular contact	
Sulfuric acid. 25%	Regular contact	
Sulfuric acid. 50%	Regular contact	
Sulfuric acid. 98%	Occasional contact	
Phosphoric acid, 50%	Regular contact	
Acetic acid .10%	Regular contact	
Sodium hydroxide, 50%	Regular contact	
Ammonia, 10%	Regular contact	
Bleach concentrate	Regular contact	
Bleach, 5%	Regular contact	
Urea (saturated)	Regular contact	
Sugar (saturated)	Regular contact	
Sodium chloride (saturated)	Regular contact	
Methanol	Regular contact	
Butanol	Regular contact	
Acetone	Occasional contact	
Mineral spirits	Regular contact	
Xylene	Regular contact	
Lubrication oil	Regular contact	
Gasoline	Regular contact	
Skydrol	Regular contact	

\* 7 day cure at 70° F (21° C) and 50% relative humidity

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### **SPECIFICATIONS**

	Part A	Part B
Physical Form	Viscous liquid	Liquid
Color		Yellowish
Odor	Phenolic odor	Ammonia
Specific Gravity	1.19	1.00
Flash Point (TCC)	200°+F	200°+F

### Available Colors Twilight Gold Azure Blue Ford Blue Hunter Green Safety Green Safety Yellow Black Brick Red Fire Engine Red Beige Canadian Grey French Grey White Dark Grey **Battleship Grey**

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