



COMPONENT DATA SHEET

Kelmar[®]
waterproofing systems

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KELMAR[®] CWC

Epoxy Wear Course

Description

KELMAR[®] CWC is a high solids epoxy that is used as a wear course in KELMAR[®] waterproofing and parking deck protection systems. KELMAR[®] CWC has no odor, making it suitable for both indoor and outdoor use.

Typical Uses

- As the wear course in KELMAR[®] Systems
- Parking Garages
- Slab-on-grade areas
- Mechanical Rooms
- Stadiums

Features

- No odor
- Durable
- Flexible
- Available in a variety of colors

Limitations

- Substrate and air temperature must be a minimum of 10°C (50°F) and a maximum of 32°C (90°F) during the entire application cycle
- Substrate should be free of dirt, waxes, grease, oil and other foreign materials
- Concrete floors should have laitance removed via shot blasting, mechanical sanding or grinding
- New concrete surfaces should be cured a minimum 28 days before coating or delamination may occur
- Cracks and surface defects should be prepared prior to priming
- If UV resistance is required, use 1920 or 1910 Topcoat

Theoretical Coverage

- 114 sq. ft. per gallon at 14 wet mils
- 70 sq. ft. per gallon at 23 wet mils
- Coverage will vary depending on aggregate size
- Mix ratio – 2 Parts Resin:1 Part Hardener

Physical Properties

- **Pot Life (200g):** 17.3 Minutes @ 24°C (75°F)
- **Solids:** 99.8%
- **VOC Content:** <5 g/L less water
- **Adhesion to prepared concrete (ASTM D4541)** – 800 PSI
- **Adhesion to Membrane** (ASTM D4541) - 20-30 psi (ASTM D3359) – 5b (100%)
- **Hardness, Shore D** (ASTM D2240) – 71
- **Walk On Time** 4.5 hours at 24°C (75°F) Note that cooler temperatures will result in longer cure times and warmer temperatures will result in shorter cure times



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Chemical Resistance

Testing in accordance with ASTM D1308 spot test procedure indicates that Kelmar[®] CWC is unaffected by the following reagents:

Automotive Fluids:

Grease	Heptane
Motor Oil	Hexane
Transmission Oil	Anti-Freeze
Gasoline	

Alkalis:

Ammonium Hydroxide (conc.)
Potassium Hydroxide 30%
Sodium Hydroxide 30%
Sodium Silicate 20%
Lime Water – Saturated Calcium Hydroxide Sol'n

Solvents:

Acetone
Methyl Ethyl Ketone
Denatured Alcohol
Butyl Alcohol
Butyl Acetate
Carbon Tetrachloride
Trichloroethylene
Cellosolve Solvent
Toluene
Xylene
Mineral Spirits

Organic Acids

Acetic 10%
Citric 20%
Lactic 40%
Gluconic 40%
Tartaric 40%

Inorganic Acids

Chromic 20%
Hydrochloric 30%
Nitric 40%
Hydrofluoric 20%
Phosphoric 50%

Inorganic Salts:

Calcium Chloride, 20%
Ammonium Chloride, 20%
Sodium Chloride, 20%
Sodium Carbonate, 20%
Sodium Phosphate, 20%
Sodium Sulfate, 20%
Magnesium Sulfate, 20%

Safety Precautions

Please refer to product Safety Data Sheet

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