



TBS COMPONENT DATA SHEET

TECHNICAL BARRIER SYSTEMS INC.



TEL: 905.842.9488 FAX: 905.842.1582 TOLL FREE: 1.888.537.2888
 EMAIL: MAIL@TBSPRODUCTS.COM WEB: WWW.TBSPRODUCTS.COM

Kelmar FWC III

100% Epoxy, Wear Course

Description

FWC (Flexible wear course) is 100% solids Epoxy that is frequently used as a wear course in the Kelmar® FWC system of waterproofing and parking deck protection. Since it was originally developed as a concrete adhesive, it has many other uses and requires no primer. Kelmar® FWC is odor free, making it suitable for both indoor and outdoor use. Kelmar FWC 111 can also be used for protecting slab-on-grade and split-slab concrete structures from moisture intrusion while providing a vapor permeable protective wear surface. FWC epoxy loaded to rejection with silica aggregates remains a breathable system.

- 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

Theoretical Coverage

- 50 – 90 sq. ft. per gallon

Features

- 100% solid epoxy, no V.O.C.
- Durable
- Flexible
- A-1 Fire Rating ASTM E84
- Available in a variety of colors

Typical Uses

- As wear course in Kelmar® FWC III system
- Garage floors
- Slab-on-Grade areas
- Split-Slab design structures

Precautions

- Substrate should be above 50°F (10°C)
- Substrate should be free of dirt, waxes, grease, oil and other foreign materials

Physical Data

Property	Standard	Results
Tensile Strength	ASTM D 412	2000 psi
Tensile Elongation without aggregate	ASTM D 412	70%
Adhesion to prepared concrete	ASTM D 4541	17 Pli
Adhesion to membrane	ASTM D 4541	20-30 psi
Water vapor transmission	ASTM D 1653	0.35 Perms
Test for surface burning	ASTM E-84	F.S. 14 F.C. 0
Chloride ion	W.J.E. 84005	No increase @ 1" depth

Chemical Resistance

Testing in accordance with ASTM-D-1308 spot test procedure indicates that Kelmar® is unaffected by the following reagents.

Automotive Fluids
Grease
Motor Oil
Transmission Oil
Anti-Freeze
Gasoline
Heptane
Hexane

Solvents
Acetone
Methalethol Ketone
Alcohol (Denatured)
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%
Hydroflouric Acid 20%
Phosphoric Acid 50%

Inorganic Salts
Calcium Chloride 20%
Ammonium Chloride 20%
Sodium Chloride 20%
Sodium Carbonate 20%
Sodium Phosphate 20%
Sodium Sulfate 20%
Magnesium Sulfate 20%

Miscellaneous Chemicals
Formaldehyde 20%
Hydrogen Peroxide 10%
Javex
Window Cleaner
Vegetable Oil

Alkalis
Ammonium Hydroxide (Conc)
Potassium Hydroxide 30%
Sodium Hydroxide 30%
Sodium Silicate 20%
Lime Water – Saturated Calcium - Hydroxide Solution

Safety Precautions

Please refer to product MSDS sheet