



# TBS COMPONENT DATA SHEET

## TECHNICAL BARRIER SYSTEMS INC.



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## Kelmar® T.E.

### Coal Tar Epoxy Wear Course

#### Description

KELMAR® T.E. wear course is a two component coal tar epoxy for use as the wearing surface in areas subjected to vehicular or pedestrian traffic. As part of the total Kelmar® system, the KELMAR® T.E. wear course provides solutions for the varied wear requirements within concrete structures.

#### Typical Uses

- Slab on grade
- Baggage areas
- Garbage rooms

#### Advantages

- Can be used as a tough skid resistant
- High abrasion resistant
- Chemical resistant to automotive fluids
- Extremely durable and seamless
- Stain resistant
- Variable thickness
- Easily recoated

#### Features

Years of successful field application and continuing product development have resulted in custom engineering of systems to meet specific requirements. These engineered systems offer protection from varying structural, environmental and traffic conditions.

Selection of the specific Kelmar® T.E. epoxy wear course is dependent upon:

- Method of deck construction
- Environmental exposure
- Grade and radius of ramps
- Anticipated traffic volume/type
- Top deck versus intermediate slab
- Frequency and type of maintenance.

Kelmar® T.E. wear course is an epoxy sand matrix system which gives long service life and maintains skid resistance throughout it's service life.

#### Limitations

- Must be primed
- Do not freeze
- Available only in black
- Must be installed by a TBS Approved Applicator

#### Surface Preparation

- The underlying surfaces must be properly prepared, dry and free of all substances detrimental to bonding.
- Substrate and air temperature must be a minimum of 50°F (10°C) during the entire application cycle.

## Physical Properties

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| <b>Density (Mixed)</b>                                 | 9.5 lb/Usgal<br>(1.14 gm/cc) at<br>72°F (22°C)         |
| <b>Viscosity</b>                                       | 1000 cps at<br>72°F (22°C)<br>50% relative<br>humidity |
| <b>Percent Solids</b>                                  | 100%   |
| <b>Compressive Strength</b><br>ASTM C 579              | 8,000 psi (55.16<br>Mpa)                               |
| <b>Tensile Strength</b><br>ASTM C 307                  | 1600 psi<br>(11 Mpa)                                   |
| <b>Elongation at Break</b><br>ASTM D 638               | 40%  |
| <b>Adhesion to Concrete</b><br>ASTM C 321              | 583 psi (4.02<br>Mpa)                                  |
| <b>Fade-Ometer</b><br>ASTM G 25                        | No color change  |
| <b>Water Absorption</b><br>ASTM D 570 Proc A<br>Cond A | 0.29% max by<br>mass                                   |
| <b>Sodium Chloride Solution</b><br>ASTM D 570          | 0.13% max by<br>mass                                   |
| <b>Hardness</b><br>Durometer Shore D                   | 69 min   |
| <b>Abrasion Resistance</b><br>ASTM C 501               | 0.069 gm per<br>1000 cycles                            |
| <b>Flexural Strength</b><br>ASTM C 580                 | 1,500 psi<br>(10.34 Mpa)                               |
| <b>Impact Strength</b><br>ASTM D 2794                  | 32ft/lb<br>(0.37 m/kg)                                 |
| <b>Test for Surface Characteristics</b><br>ASTM E 84   | Class 1 or A   |

## Theoretical Coverage

- 50 – 90 sq. ft. per gallon
- 1 Part Resin: 1 Part Hardener

## Safety Precautions

Please refer to product MSDS sheet.