

# KELMAR T.E.

Totally engineered (T.E.) membrane traffic coating system

## DESCRIPTION:

Kelmar T.E. (totally engineered) is a multi-layered, protective coating system. The system consists of a prime coat, a membrane and an abrasion-resistant, traffic bearing topcoat which is seeded with aggregate for skid resistance.

The thickness of the Kelmar T.E. system can be adjusted to accommodate varying degrees of traffic exposures:

### Exposure 1

For parking stalls or other areas exposed to light traffic.

### Exposure 2

For level traffic lanes and gradually sloping ramps, and for parking stalls in high traffic.

### Exposure 3

For steep and/or helix ramps, high torque turning areas, and areas adjacent to ticket cashiers, etc.

### Exposure 4

For heavy traffic in shipping and receiving areas.

## RECOMMENDED FOR:

- Parking garages.
- Plaza decks.
- Stadiums.
- Areas requiring abrasion resistance combined with flexible membrane needs & not exposed to environmental elements.

## FEATURES/BENEFITS:

- Prevents chloride ion penetration.
- Class A, fire rating.
- Tenaciously bonded primer.
- Permanently elastic membrane.
- High traction, skid-resistant wear course.
- High chemical & corrosion resistance.

## COLORS:

Available in Black only.

## PHYSICAL PROPERTIES:

### Tensile Strength

ASTM D 412 1600 psi (11MPa)

### Tensile Elongation

ASTM D 412 600%

### Abrasion Resistance

ASTM C 501 .069 gm

### Impact Resistance

Gardner Impact Test 160 in/lb (896 cm/kg)

### Peel Adhesion

ASTM C 957 Min 15-17 pli on concrete after water immersion

### Test for Surface Burning Characteristics

ASTM D 2240

- Flame Spread: 14
- Fuel Contribution: 0
- Class: 1 or A

### Hardness, Shore D

ASTM D 2240 71

## SURFACE PREPARATION:

- Surface and air temperatures must be at least 55°F (12°C) during installation and initial cure.
- Surface should be checked for soundness and any "hollow areas should be removed. All depressions or spalled areas and cracks should be pre-filled with a product approved by the certified contractor.
- Concrete substrate should have laitance removed preferably by the shot blast method.
- Detailing work such as injection and treatment of control and expansion joints shall be according to specifier recommendation.

## APPLICATION:

This system is applied only by Master Builders Certified Contractors.

## MAINTENANCE:

As ongoing maintenance (housekeeping to maintain facility appearance), Kelmar T. E. systems can be cleaned with an appropriate alkaline based cleaner.

## SAFETY:

For industrial and professional use only. For detailed safety guidelines, please refer to the product Material Safety Data Sheet (MSDS).

## LIMITATIONS:

- Not recommended for application on slabs-on-grade.
- This system is not to be used on top or plaza decks exposed to the elements (for top decks exposed to the elements, see Kelmar F.W.C. II T.E.).
- Store material in a cool, dry area [50°F to 90°F (10°C to 32°C)] away from direct sunlight, flame or other hazards.

## MASTER BUILDERS, INC.

### United States

23700 Chagrin Blvd.  
Cleveland, OH 44122  
800-MBT-9990  
Fax 216-831-6910

### Canada

3637 Weston Road  
Toronto, Ontario M9L 1W1  
800-387-5862  
Fax 416-741-7925

### Mexico

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, Mexico  
011-525-557-5544  
Fax 011-525-395-7903

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