

# E CRETE N 57

ELASTOMERIC EXPANSION JOINT NOSING INFILL

IMPERIAL SYSTEM PRODUCTS

# E-CRETE 57N ELASTOMERIC POLYMER INFILL

E-Crete No. 57N is supplied in kit form as a 100% solids, self-leveling, three component, modified urethane system developed for use with specially blended aggregates. E-Crete No. 57N is primarily used as a header material.

E-Crete 57N has the unique ability to absorb energy from impact loads and disperse this energy throughout the header material, reducing cracking and spalling. It has excellent adhesion to asphalt, concrete, and steel surfaces. It can be applied at a minimum of 40°F (4.5°C) ambient and surface temperatures.

FEATURES	BENEFITS
3 Component Kit	Premeasured ratios allow for easy mixing in the field. No proportioning necessary.
Mix with high torque mortar mixer drill or equivalent	Reduced equipment and labor costs.
Fast cure/set time	Allows for a quick return to service, 2 hours after placement at ambient temperature.

#### USES

#### **Application**

• Nosing material in armorless joint systems

#### Locations

- Bridges/Highways
- · Parking Decks
- · Roadways
- Commercial Structures
- Airports (Tarmac & Gate Areas Only)

#### **Substrate**

- Concrete
- Asphalt
- Steel

#### **ADVANTAGES**

# **Easy Installation:**

Large unit size has better pour consistency, reduced mixing & installation time. Decreased labor costs.

#### **Rapid Cure Time:**

E-Crete No. 57N allows for those under strict time constraints to resume traffic within two (2) hours of installation at 77°F.

#### **Toughness:**

E-Crete No. 57N is a modified urethane system which provides the material tremendous physical properties allowing the elastomeric concrete to deflect under load without destroying its matrix.

TECHNICAL DATA				
Properties	Part A	Part B	Mixed	
Color	Black	Lt Brown	Black	
Density, lbs/gal	8.5 ±0.3	$10.1 \pm 0.2$	Black	
Typical Viscosity, cps	1000	600		
Mixing Ratio, containers	1	1	1 unit: 55 lbs aggr.	
Pot Life, min @ 77°F (25°	15 – 20			
Initial Set, min @ 77°F (25	25 - 30			
Initial Cure, hr @ 77°F (25	2			
Full Chemical Cure, days	14			
Compressive Strength, psi	2000 min			
Resilience @ 5% deflectio	95% min			
Tensile Strength, psi, AST	1000 min			
Ultimate Elongation, AST	150% min			
Shore D Hardness, ASTM	50 min			
Slant Shear Bond Strength ASTM C882/C882M to co Using Eva-Pox Bonder No	450 min			
Tear Resistance, lbf/in, AS	200 min			
Yield Per Kit, cubic feet	0.55			

# **LIMITATIONS**

- Surface and ambient temperatures must be 40°F minimum for installation.
- Material is self-leveling.
- Material should not be installed in damp or wet environment.
- Elastomeric concrete must be structurally supported by concrete, steel or other material.

# SURFACE PREPARATION

**New Concrete:** New concrete should cure to 80% of the design strength. Concrete should be a minimum of 14 days old. Sandblasting with medium grit sand is the preferred method of surface preparation. Mechanical grinding of the surface is acceptable but should only be done when sandblasting is not an option. The surface should be prepared in a manner that will add a profile to the new concrete.

Existing Concrete: Existing concrete should be clean and free of all dust, dirt, debris, oils, greases, waxes, existing coatings, curing compounds, heavy laitance and sharp edges. Sandblasting with medium grit sand is the preferred method of surface preparation. Mechanically grinding the surface is acceptable but only when sandblasting is not possible. The surface should be prepared in a manner that will add a profile to the existing concrete.

## IMPERIAL SYSTEM PRODUCTS

**Steel:** Carbon steel surfaces must be clean and sandblasted to a near white metal (SSPC-10) finish immediately before the installation. Specialized metals such as stainless, hot dipped galvanized, bronze, etc. should have their surfaces mechanically etched. Apply heat to the steel prior to priming in order to remove any moisture from the surface. All surfaces must be clean of any dirt, dust, debris, coatings, curing agents and rust prior to installation.

# **PRIMING**

Prior to mixing and placing the elastomeric concrete, prime all areas of the substrate(s) that will come in contact with the elastomeric concrete. Both vertical and horizontal surfaces should be primed with Bonder No. 1. Bonder No. 1 can be applied using a paint brush or trowel. The material should be applied in a single coat between 20 - 40 mils (40-80 ft² per gallon). The substrate should not be visible after it is primed.

#### **MIXING**

Kits contain 1 gal. of Part A and 1/2 gal. of Part B with a 5 gal. pail of Part C (E-Crete Aggregate.) Using a drill and spiral mixing paddle, premix Part A & Part B components individually until uniform (approx.15-30 seconds). Immediately pour the contents from Part A & Part B into a clean, empty 5 gallon pail and blend for an additional 30 seconds minimum or until thoroughly mixed with no marbling present. After thoroughly mixing the resins, slowly add entire 5 gal. pail of the E-Crete Aggregate (Part C) and continue mixing until no dry material appears.

Once all three components have been mixed thoroughly, the material can be poured into the block out/hole while the primer is still wet. The ECrete-57N material is self-leveling. Trowel finish as desired.

# **AVAILABILITY**

Kit Size (0.5 cu.ft.)(14,158 cubic centimeters) Part A - 1 gal. (3.6 L)

Part B - 1/2 gal. (1.8 L) Part C - 55 lbs. (25kg) Aggregate

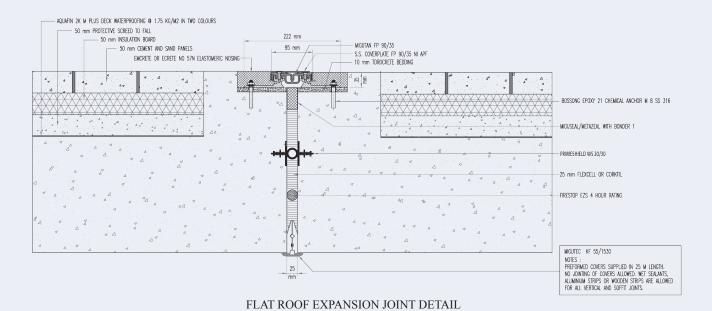
#### **CLEAN UP**

Use mineral spirits to clean all tools and equipment before material sets up.

# AREAS OF USAGE

E-CRETE should be used as a nosing armour next to expansion joints in:

Drive up Ramps
Carpark Decks
Eco Decks
Roofing Decks
Factory Floors
Link ways
Bridges



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