

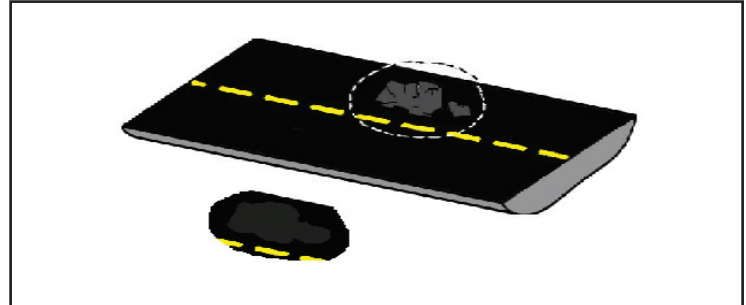
E®-CRETE No. 57

E-Crete No. 57 is a self-leveling, three-component modified elastomeric compound used to provide a resilient header in our CEVA 250 and CEVA 300 expansion joint systems, and as a road or deck patching material for rehabilitation.

E®-POXY
Elastomeric Concretes

PRODUCT DESCRIPTION:

E-Crete No. 57 is supplied in kit form as a 100% solids, self leveling, three component, modified elastomeric compound developed for use with specially blended aggregates to repair potholes, bridge decks, driveways, parking decks, etc. E-Crete No. 57 is primarily used as a header material in the Ceva® Expansion Joint Systems. E-Crete 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. Provides excellent resistance to moisture and abrasion, along with very good solvent, chemical, ultra-violet and oxidation resistance. For application at a minimum of 40°F (4.5°C) ambient and surface temperatures.



FEATURES	BENEFITS
Self-contained kit	2:1 ratio allows for easy mixing in the field. No proportioning necessary.
No special equipment necessary. Can be mixed using a standard 3/8" drill	Reduces equipment and labor costs.
Rapid adjustable cure time	Allows for a quick return to service 1 hrs after placement regardless of temperature
Impact resistant	Withstands consistent abrasion and impact to reduce spalling and cracking
Excellent chemical resistance	Holds up in harsh environments.

USES:

Application

- Pothole/chuckhole spall-repair (2" min depth)
- Nosing material in expansion joints

Locations

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

Substrate

- Concrete
- Asphalt
- Steel

ADVANTAGES

- **Easy Installation:**
Larger unit size has better pour consistency, reduced mixing & installation time. Decreased labor costs.
- **Rapid Cure Time:**
E-Crete No.57 allows for those under strict time constraints to resume traffic within an hour of installation at 77°F.

TECHNICAL DATA			
Properties (uncured):	Part A	Part B	Mixed
Color	Gray Black	Straw Straw	Black Black Gray Black
Shelf Life	1 Year	1 Year	
Density, (lbs./gal.)	8.5±0.3	9.75±0.2	9.1±0.2
Viscosity, (cps.):	1500±500	100±25	500±250
Mixing Ratio (by vol.)	2	1	1 unit: 62 lbs. aggr.
Pot Life @ 77°F (25°C)			20 min ± 5 min
Initial Set @ 77°F (25°C)			30 - 45 min
Initial Cure @ 77°F (25°C)			45 - 60 min.
Full Chemical Cure			7 days
Properties After Cure:			
Compressive Strength	ASTM D695 (mod B)		2200 psi.
Resilience @ 5% deflection	ASTM D695		90% min.
Tensile Strength	ASTM D638		775 psi.
Elongation	ASTM D638		140% ± 30
Shore D Hardness	ASTM D2240		59 avg.
Water Absorption	ASTM D570		<1% avg.
Slant Shear Bond Strength			
Concrete			250 psi. min.
Steel			250 psi. min.
Impact Resistance @ 32°F (0°C)	ASTM D3209		No Cracks
@ -20°F (-29°C)			No Cracks
@ 158°F (70°C)			No Cracks

WARRANTY

Manufacturer WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. Manufacturer makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling. For further Technical or Application Information, contact Chase Construction Products

E® CRETE No. 57
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- **Toughness:**

E-Crete is a modified urethane system which provides the material tremendous physical properties allowing the elastomeric concrete to deflect under load without destroying its matrix.

SURFACE PREPARATION:

New Concrete: New concrete should cure 80% of the design strength. Concrete should be at a minimum 14 days old. Sandblasting with a 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 as to add a profile to the new concrete. New concrete should then be primed with Eva-Pox Bonder #1.

Existing Concrete: Existing concrete should be cleaned of all oils, greases, dirt, waxes, existing coatings, curing compounds, heavy laitence and sharp edges. Sandblasting with a 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 as to add a new profile to the concrete.

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 coatings, curing agents, rust and dirt prior to installation.

PRIMING:

Prior to mixing and placing the elastomeric concrete, please prime the substrate(s) coming in contact with the elastomeric concrete. Both vertical and horizontal surfaces should be primed with our Eva-Pox Bonder No. 1. Eva-Pox Bonder No. 1 should be applied using a paint brush or trowel. The material should be applied in a single coat at a rate of between 20 - 40 mils (40-80 sqft per gallon). The substrate should not be visible after it is primed.

MIXING:

Kits contain 1 gal. of Component A and 1/2 gal. of Component B with a 5 gal. pail of Part C (E-Crete Aggregate.) Using a drill and spiral mixing paddle, pre-mix A & B components until uniform (approx. 15-30 seconds). Immediately remove contents from A & B containers. Blend in a clean, 5 gallon pail for a minimum of 30 seconds or until thoroughly mixed with no marbling present. After thoroughly mixing the resins, slowly add entire 5 gal. pail of the supplied E-Crete Aggregate (Part C) and continue mixing until no dry material appears.

Once mixed, the material can be poured into the block out/hole while the primer is still wet. The material is self-leveling. Trowel finish as desired.

For additional instructions see the "Installation Instructions For Elastomeric Concrete" data sheet.

LIMITATIONS:

- Do not install below 35°F
- Material is self leveling. Contact Chase for installation procedures on super elevations.
- Material should not be installed in a wet environment/standing water.
- Elastomeric concrete must be structurally supported by concrete, steel or other material.

AVAILABILITY:

Kit Size (.64 cu.ft.)(18,122 cu.cm.):

Part A - 1 gal. (3.785 l) component A

Part B - 1/2 gal. (1.89 l) component B

Part C - 62 lbs. (27.2kg) Aggregate

Colors: Concrete Gray

Black

CLEAN UP:

Use manufacturer recommended solvent prior to E-Crete #57 curing.

STORAGE:

DO NOT ALLOW PRODUCT TO FREEZE. Store in a dry area at temperatures between 50°F and 95°F (10°C - 35°C) in the original unopened containers.

CAUTION:

Direct contact with skin should be avoided. Protective clothing, goggles and gloves are recommended.

In case of contact with eyes, flush immediately with water and report to a doctor. FATAL IF TAKEN INTERNALLY.

E-Crete #57 is moisture sensitive. Prime all surfaces prior to installation. Do not install product unless initial cure can be reached prior to rain fall.

E-Crete # 57 Aggregate (Part C) contains respirable crystalline silica, which may cause delayed lung injury (silicosis), if inhaled over a prolonged period. Refer to current MSDS for safety guidelines before using this product.

E-Crete #57 Aggregate (Part C) is specially formulated and must be dry prior to mixing.

Parts A & B must be pre-mixed.

The data contained herein reflects internal testing conducted by the manufacturer and by third parties who are responsible for the accuracy of the information. This document is not to be construed as a specification or specific application process. Chase Corporation assumes no liability outside specific limits specified herein.

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