



## **FlexSet™ Elastic Concrete**

Roklin Systems® FlexSet combines polymers with a specially-treated aggregate to create a rapid setting, easy-to-apply, long-lasting and durable concrete repair. Repairs can be done in minutes, using only 4 simple steps. Originally, developed for the U.S. Air Force as a rapid runway repair material, FlexSet has become an inexpensive alternative to traditional concrete restoration procedures. This innovative, patent pending process provides a modern solution to an age-old problem. FlexSet repairs are guaranteed to perform. FlexSet cures to a flexible composition that supports heavy loading yet can tolerate shock, vibration and thermal movement to withstand heavy truck volume as encountered on Interstate Highways and Bridges

Distributor

**BREWER COTE OF ARIZONA INC® 'THE PAVEMENT MAINTENANCE SPECIALISTS'**  
5226 W. MISSOURI AVENUE, GLENDALE, ARIZONA 85301

## FlexSet™ Elastic Concrete

FlexSet Elastic Concrete is a flexible concrete comprised of elastic cement and coated silica quartz mix.

FlexSet Elastic Concrete is supplied in 5 gal pails comprised of: 43 lbs. Polymer Coated Silica Quartz, 1/2 gal of Elastic Cement A, 1/2 gal of Elastic Cement B, and 10 lbs. of Polyme Coated Topping Sand.

**Packaging & Coverage:** Each 5 gal container of FlexSet Elastic Cement will fill .4 cubic feet (691 cubic inches).

125 lbs of Elastic Concrete will fill one cubic foot. The coverage rate is:

Thickness	Coverage / Sq. Ft	Thickness	Coverage / Sq. Ft
1/8"	38.4	5/8"	7.7
1/4"	19.2	3/4"	6.4
3/8"	12.8	7/8"	5.5
1/2"	9.6	1"	4.8

**Safety:** FlexSet Elastic Concrete is not a significant skin or eye irritant Nevertheless, Skin or eye contact may lead to sensitization. Appropriate protection is necessary. Gloves and safety glasses are required for handling FlexSet. Wash hands before eating, drinking, and smoking after handling material.

**Surface Preparation:** Remove loose & unsound material. Sand Blast or shot blast contaminated

surfaces. Clean & blow out cracks with dry compressed air. Dry wet surfaces. Moist surfaces create a weak bond and foaming.

Caution: Use opened containers right away to avoid moisture contamination.

**Mixing:** Add 1/2 gal of "A" to coated sand mix. Mix thoroughly with heavy duty mixer (about 2 minutes). Next, add 1/2 gal of "B" and mix thoroughly (1 min). Blend is pourable, working time is approximately 15 min at 75°.

**Installation :** Squeegee, spread, gauge-rake or trowel. Broadcast surface with topping sand. For deep repairs, FlexSet can be placed in lifts topping each lift with aggregate. Install at temperatures between - 25° C to 40° C (- 14° F to 104° F).

**Cure:** Cure for 1 hour minimum at 75° F before subjecting to traffic. Cold temperatures slow cure. At 55° F, 4 hr. cure is needed for open traffic. Cold weather cure is accelerated by maintaining repair kits warm prior to application.

**Shelf Life:** FlexSet Elastic Concrete shelf life is 1 year when stored indoors, unopened under cool & dry conditions. Avoid wet storage conditions. Dispose empty containers i accordance with all local , state, and federal regulations.

**First Aid: If Inhaled,** remove to fresh air, if not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen and call physician. **Skin Contact:** Wash skin with soap and water. Remove contaminated clothing. **Eye Contact:** Flush with water for atleast 15 min and call physician.

**Spill or Leakage:** In case of a liquid spill of unmixed materials A & B absorb spilled material with sawdust or other absorbent Sweep into container and neutralize with decontamination solution (95% water, 5% ammonia & 2% detergent). Store open containers outdoors for at least 24 hrs. Dispose of neutralized waste in accordance with local, state and federal . government environmental regulations

**Table 1 TX DMS – 6170 Type I Physical Requirements**

TEST	AGE	METHOD	REQUIREMENT	RESULTS
Gel Time, min		TEX 614 J	5 to 60 min	9 min
Wet Bond Strength psi	7 days	TEX 618 J	≥100 psi	176 psi
Compressive Strength psi	24 hr	ASTM C579 B	≥200 psi	1710 psi
Compressive Strength psi	7 days	ASTM C579 B		1820 psi
Compressive Strength psi	28 days	ASTM C579 B		2140 psi
Compressive Stress @.1 in	7 days	TEX 618 J	≥200 psi	733 psi
Resilience %	7 days	TEX 618 J	≥90 %	97.2 %*
Resilience %	7 days	TEX 618 J	≥90 %	82.0 %
Thermal Compatibility	7 days	ASTM C884	No delamination or cracking after 9 cycles	pass

\*From an Earlier Batch

## Physical / Chemical Characteristics

Boiling Point	428° F, 536° F
Melting Point	N/A
Vapor Pressure (mm Hg.)	N/E
Vapor Density (AIR=1)	9.9
Specific Gravity (H2O=1)	1.084, 0.942-.948
Evaporation Rate (Butyl Acetate=1)	N/E
Solubility in Water	Insoluble, reacts with water to form carbon dioxide gas
Appearance / Odor	Pale Amber, Odorless Liquid
Reactivity	Stable, under normal, recommended storage conditions
Conditions to Avoid	Open Flame and Storage Temperatures above 120° F