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## **FLEXPATCH** *POLYMER PATCHING MORTAR*

### Features

- Non-conductive
- Fast installation
- Elastomeric
- Abrasion resistant
- Waterproof
- Outlasts cement based patches
- No shrinkage
- ASTM C881, Grade 1, Class B & C

### Benefits

- No "Halo" effect
- Short traffic closure
- Moves with deck
- Long wearing
- No salt freeze/thaw damage
- Low life cycle cost
- No edge cracks
- VOC Compliant

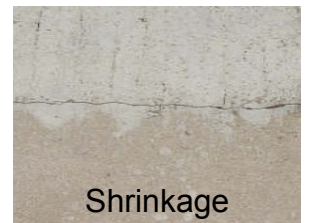
**Eliminates increased deterioration caused by cement based patches:**



**Meets F.A.A. Specification P-501-4.19**



Cracking



Shrinkage



"Halo" Effect



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## FLEXPATCH POLYMER PATCHING MORTAR

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### Product Description

A three-component, 100% solids, multi-purpose, high-strength, Non-shrink, waterproof, non-conductive, semi-flexible polymer patching mortar for longer lasting patches with excellent workability. The system combines a high quality polymer resin and curing agent with an engineered blend of graded aggregates.

### Uses

- Bridge Decks
- Roadways
- Parking and garage decks
- Conforms to ACPA Bulletin TB003 for use in partial depth pavement repairs
- Concrete pavement joint edge repair
- Meets USDA Specifications for use in food processing areas

### Packaging

.5 cu. ft. Unit (.014 cu. m.)	Consisting of a 1/2 gallon each of part "A" and "B", and 1 bag of aggregate.
1.0 cu. ft. Unit (.028 cu. m.)	Consisting of 1 gallon each of part "A" and "B", and 2 bags of aggregate.
5.0 cu. ft. (.140 cu. m.)	Consisting of 5 gallons each of part "A" and "B", and 10 bags of aggregate.

**Shelf Life:** 2 years in original unopened container.

**Storage Conditions:** Store at 50°-90°F. Condition at 65°-80°F before using.

### Typical Physical Properties

Compressive Strength	PSI @ 4 hrs. (Method B) PSI @ 24 hrs. (Method B)	1500 Min 4500 Min.	ASTM C579 ASTM C579
Bond Strength	PSI	2500 Min.	ASTM C882
Linear Shrinkage	Percent	Negligible	ASTM C531
Abrasion Resistance	Weight Loss (H-22) Grams	1.0 Max.	ASTM C501
Chloride Ion Permeability	Coulombs	1.0 Max.	AASHTO T-277
Thermal Compatibility	Pass	Pass	ASTM C884

## Application

### Surface Preparation:



Step 1: Remove all deteriorated and unsound concrete with chipping hammers. Chipping hammer shall not exceed 30lbs.



Step 2: Thoroughly clean patch area by sandblasting. Any exposed reinforcing steel shall be blasted to white metal finish.



Step 3: Blow all dust and loose particles from patch area with oil/moisture free compressed air.

### Mixing:

FLEXPATCH 1 cu. ft. kit or larger should be mixed using a paddle mortar mixer. Do not attempt to hand mix large quantities. Small quantities of FLEXPATCH can be easily mixed using a heavy-duty hand drill. Mechanically mix A and B components 1:1 by volume with a Jiffy mixer and variable speed drill @ 300 rpm for a minimum of 3 minutes.

**Step 1:** Mechanically mix A & B components 1:1 by volume in a clean pail and mix thoroughly for 3 minutes with a drill and spiral, jiffy-type mixer on low-speed.

**Step 2:** If mixing in a pail, while stirring slowly add the included amount of aggregate to the mixed FLEXPATCH liquid polymer until thoroughly mixed. Up to 5 cubic feet per batch can be mixed using an appropriately sized paddle-type mortar mixer. Call for mixing and clean up instructions.

### Patching Concrete:



If the depth of the patch is less than 1", approximately 10% of the aggregate should be withheld. Place FLEXPATCH into prepared hole. Screed or float to desired level. Thoroughly compact and finish with a steel trowel, paying special attention to edges.

## Limitations

- Minimum substrate temperature is 40°F (5°C)
- Minimum age of concrete for bonding should be 28 days unless manufacturer is consulted.
- Not for full-depth repairs

## Clean-up

EQUIPMENT: Uncured material can be removed with CITRUS CLEANER or other approved solvent. Cured material can only be removed mechanically.

MATERIAL: Collect with absorbent material. Dispose of in accordance with local, state and federal disposal regulations.

## First Aid

EYE CONTACT: Flush immediately with water for at least 15 minutes. Contact physician immediately.

RESPIRATORY CONTACT: Remove person to fresh air.

SKIN CONTACT: Remove any contaminated clothing. Remove polymer immediately with a clean, dry towel and wash skin thoroughly with soap and water. Solvents should not be as they carry the irritant into the skin.

CURED POLYMER IS INNOCUOUS.

## Cautions

Component A: Irritant  
Component B: Corrosive

Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves is recommended.

Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate.

Avoid breathing vapors.

Avoid skin contact.

**FLEXPATCH POLYMER PATCHING MORTAR** is part of the SSI Family of transportation products:

**SILSPEC® 900PNS • SILSPEC® 2000 • SILSPEC® FLEXPATCH • SILSPEC® RE-DECK  
SILSPEC® DECKSEAL • SILSPEC® SES • SILSPEC® SSS**



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