

# Pavesaver+™ Polymeric Concrete Patch

Pavements



**Bridge the World with Leading Infrastructure Solutions**

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## General

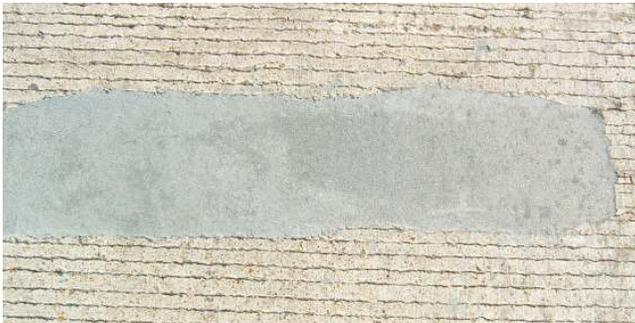
Pavesaver+™ is a new generation of non-shrink epoxy-based elastomeric concrete featuring an ideal balance for both flexibility and strength. This unique combination provides an excellent long-term patching solution for repairing cracks and spalls on airfield, bridge decks, bridge expansion joint headers, and highway pavements.

## Pavesaver+™ Advantages

1. **High-load bearing capacity** – Handles the weight of C-4s, 747s and heavy truck traffic.
2. **Outstanding anti-spalling properties** – Pavesaver+™ is a long-term solution for high-performance pavement repairs.
3. **Impact resistant** – Under bitterly cold conditions, Pavesaver+™ withstands heavy impact and resists shattering, unlike conventional concrete and imitation epoxy-based materials.
4. **High compressive strength** – Pavesaver+™ can handle heavy psi pressure before deflecting.
5. **Chemical resistant** – Pavesaver+™ resists commonly used chemicals such as ASTM Oil #1, ASTM Fuel A, Ethylene Glycol, Freon, Isopropyl Alcohol, JP-4 Jet Fuel, Silicone Grease, Sodium Chloride, Mineral Oil, Trisodium Phosphate and Potassium Acetate.
6. **Easy to install** – Pavesaver+™ is semi self-leveling and has a rapid cure time. This minimizes expensive downtime and allows for the return of traffic often within 3 hours after final pour. It also protects work crews by minimizing exposure to heavy traffic. Pavesaver+™ can be mixed in 70-quart multi-purpose buckets or in approved mortar mixers for high volume applications.
7. **Flexibility** – Cement, phosphate, and most other high early strength repair materials prematurely fail because they are rigid. Rigid repair materials installed in rigid pavement require that the materials have similar coefficient of expansion. Most do not and, as a result, destroy the patch and the surrounding concrete. Pavesaver+™ utilizes a unique epoxy chemistry to provide a flexible patch that will deflect as surrounding concrete expands and contracts.



Top and Center images: Highway Spall Repair, Highway 99, Fort Bend County, TX.



Dowel Bar Retrofit.



Pavesaver+™ Airfield Repair Application



Pavesaver+™ Bridge Expansion Joint Header Application

### Pavesaver+™ Polymeric Concrete Patch Physical and Performance Properties

Test Method	Property Tested	Requirements	Results
ASTM C501	Abrasion Resistance	Weight Loss H-22 Grams 1.0 Max.	Pass
ASTM C531	Linear Shrinkage	Negligible	Pass
ASTM C579 Method B	Compressive Strength	PSI @ 4 Hours 1500 Min. PSI @ 24 Hours 4500 Min.	Pass Pass
ASTM C882	Bond Strength	PSI of 2500 Min.	Pass
ASTM C884	Thermal Compatibility	No delamination or cracking	Pass
AASHTO T-277	Chloride Ion Permeability	Coulombs, 1.0 Max	Pass

### Pavesaver+™ meets and/or exceeds ASTM C881 Type III (Mortar) and the following physical property requirements

Test Method	Property Tested	Requirements	Results
ASTM C579 Method B	Compressive Strength	PSI @ 4 Hours 1500 Min. PSI @ 24 Hours 4500 Min.	Pass Pass
Tex-614-J	Gel Time	1 Minute Min. - 60 Minutes Max.	Pass
Tex-618-J	Wet Bond Strength to Concrete	PSI of 225 Min.	Pass
Tex-618-J	Compressive Strength	PSI of 3000 Min. @ 0.1 in. for 7 days	Pass
Tex-618-J	Resilience	80% Min.	Pass
ASTM C884	Thermal Compatibility	No delamination or cracking	Pass

## Area Preparation

Saw cut, chip, or mill area to be repaired, leaving only sound concrete. Carefully sandblast all areas which will be in contact with Pavesaver+™. The repair area must be clean and dry and the substrate must be a minimum temperature of 40°F (5°C). The minimum age of hardened concrete for bonding should be 5-7 days.

## Materials/Equipment

Jiffy style mixing attachment, heavy-duty drill, clean and dry mixing bucket, spatula, bucket scrapers, and finishing trowels.

A D.S. Brown approved mortar mixer may be used for large projects.

## Storage Conditions

Store at 40°- 95°F (5°- 35°C). For best results, condition material to 65°- 85°F (18°- 29°C) before using.



## Mixing and Placing

### Step 1

Pour premeasured amounts of Part A and B liquids into the mixing bucket. Using a spatula, thoroughly scrape the sides and bottoms of the cans to get as much of the resin liquids as reasonably possible into the mixing bucket. Failure to do this could result in irregular color or a dry mix.

### Step 2

Place Jiffy type mixer at the bottom of the bucket to avoid introducing air and thoroughly mix on low-speed (300 rpm) for 3 minutes. The material should have a uniform consistency with no visual color streaks.

### Step 3

Slowly add component C (aggregate) to the mixed liquid components.

### Step 4

Mix thoroughly until all aggregate is wetted out.

### Step 5

Immediately place mortar. Thoroughly compact and trowel finish the surface.

### Step 6

For repairs along existing joints, the joints should be maintained by the use of forming materials or saw cutting method.



1.0 Cubic Foot Unit of Pavesaver+™

## Packaging

**1.0 cubic foot unit (.028 cubic meter)**  
(7.48 mixed gallons)

One can Part A (1 gallon gray liquid)

One can Part B (1 gallon clear liquid)

Two 55 lb. bags Aggregate