

TECHNICAL DATA SHEET

DESCRIPTION

Sure Patch is a 100% solids, low modulus epoxy resin system containing specially selected aggregates. A unit consists of three parts: component "A" epoxy resin, component "B" modified amine curing agent and component "C" specially graded aggregate.

USE

Use for epoxy interior or exterior concrete repair and overlays on interior horizontal surfaces and for interior industrial and commercial applications subjected to abrasion and or chemical spills.

FEATURES

- Pre-measured proportions
- Trowelable
- Rapid strength gain
- Open to foot traffic in 2 hours
- Open to vehicle traffic in 3-5 hours
- Superior ultimate strength
- Moisture tolerant
- Solvent free
- Superior wearing surface
- Chemical resistant
- Two convenient packaging sizes
- Complies with FAA Specification Item P-501-4.19, ASTM C881 Type III, Grade 1 (resin only)

PROPERTIES

Resin Properties:

- % Solids: 100%
- Gel time: 15 minutes @ 73°F (23°C)
- Bond Strength (ASTM C-882):
14 day cure 3,200 psi (22.6 MPa)
- Compressive Modulus (ASTM D-695)
80,000 psi (551.6 MPa)
- Tensile Strength (ASTM D-638): 3,000 psi (20.7MPa)
- Tensile Elongation (ASTM D-638): 50.0%
- Flexural Yield Strength (ASTM D-790)
2,500 psi (17.2 MPa)
- Absorption (ASTM D-570): 0.2%

Mortar Properties:

- Compressive Strength (ASTM C-579)
3 hrs. 1,500 psi (10.3 MPa)
24 hrs. 7,000 psi (48.3 MPa)
48 hrs. 7,000 psi (48.3 MPa)

VOC

VOC content of 0 g/L . Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

Small unit mixed yields 0.5 cu. ft. (0.014 cu. M) of patching mortar.

- Component A – .5 gal / 1.9 L
- Component B – .5 gal / 1.9 L
- Component C – (1) 50 lb / 22.7 kg bag

Large unit mixed yields 2.0 cu. ft. (0.056 cu. M) of patching mortar.

- Component A – 2 gal / 7.6 L
- Component B – 2 gal / 7.6 L
- Component C – (4) 50 lb / 22.7 kg bag

Packaging

| PRODUCT CODE | PACKAGE | SIZE | |
|--------------|---------|---------|---------|
| | | cu. ft. | (cu. m) |
| 139890 | Unit | 0.5 | (0.014) |
| 139891 | Unit | 2.0 | (0.056) |

STORAGE

Sure Patch should be stored in a dry environment between 40°-95°F (5°-35°C). Under these conditions, the shelf life is 24 months in unopened, damage-free containers.

Surface Preparation:

Surface to receive the Sure Patch must be clean and sound. Remove oil, dirt, grease, laitance, curing compounds and other foreign matter that may cause a problem with bond. Area to be patched should have a defined edge to work the repair mortar to with a roughened side wall; remove all deteriorated and unsound concrete with chipping hammers not to exceed 30 lb. (13.6 kg). Thoroughly clean patch area and exposed reinforcing steel by sandblasting to white metal finish. Abrasive blast cleaning or other mechanical removal methods are recommended for providing a roughened profile. Vacuum all dust and loose particles from area.

Mixing:

Condition material to 65°-85°F (18°- 29°C) before using. Premix each component after which you mix equal volumes of Part A and Part B for three minutes, or until thoroughly blended, with a low speed drill using a Jiffy mixer or paddle, then slowly add the entire amount of aggregate (component C). Keep mixer at bottom of pail to avoid introducing air. Mix complete units only.

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Placement:

Place the material immediately after mixing. Trowel material into the prepared area then tamp well to eliminate any voids. Screed or float to the desired level, strike off then thoroughly compact and finish the surface. Sure Patch can be placed up to 3 inches (7.5 cm) neat. For applications up to 6 inches (15 cm) deep, Sure Patch can be extended 50% by volume with clean, dry 3/8 pea gravel. Mortar mixers are recommended for mixing when using aggregate extender. For deep pours and temperatures above 85°F contact Dayton Superior technical service.

CLEAN UP

Clean tools and equipment before the epoxy sets up, using Xylene or the Dayton Superior Citrus Cleaner J48.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Mix complete units only. Do not expose stored product to cold or freezing temperature (below 35°F, 2°C). Precondition material to 65°-85°F (18°-29°C). The air, material, and surface temperatures are to be a minimum of 40°F (5°C); preferable application temperature is 55°F (13°C). Do not thin with any solvents.

Epoxies may yellow, discolor, or chalk upon exposure to strong sources of Ultra-Violet radiation such as from sunlight, and some types of industrial artificial lighting. Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions and have a moisture content less than 4%.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Component A – Irritant
- Component B – Corrosive
- Component “C” Irritant: Contains Portland cement.
- Product is a strong sensitizer
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately

- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

MANUFACTURER

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Technical Services: 877-266-7732
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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

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Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.