

TECHNICAL DATA SHEET

DESCRIPTION

Bridge Seal 75% is a highly penetrating, two component epoxy healer/sealer which when applied to cracked bridge decks or elevated concrete, structurally seals the cracks against moisture and chloride ion intrusion.

USE

Bridge decks
 Parking decks
 Floors
 Columns & beams in splash zone areas
 Consolidation of porous & dusting floors

FEATURES

- Deep penetrating
- Structurally seals cracks against moisture and chloride ion intrusion
- Rapid cure time allows traffic to reopen in four hours

PROPERTIES

Viscosity: 40 cps
 Solids: 75%
 Color: Clear Amber
 Gel time – ASTM C881
 60 gm sample @ 73°F (23°C): 15 min.
 Bond Strength; (ASTM C-882) 3,000 psi (20.7 MPa)
 Tensile Elongation: (ASTM D-638) 50%
 Tensile Strength: (ASTM D-638) 2500 psi (17.2 MPa)
 Absorption: (ASTM D-570) 0.2%

VOC

Bridge Seal 75% has a VOC content of < 250 g/L . Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

Broom Finish: 65 to 100 sq. ft/gal. (1.6 to 2.5 sq m/L)
 Steel Trowel Finish: 150 to 200 sq. ft/gal. (3.7 to 4.9 sq m/L)

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
140039	Unit (Pails)	10	37.8
140045	Unit (Drums)	110	416.4
140044	Unit (Totes)	500	1892.7

STORAGE

The material should be stored at 40° -95°F (5°-35°C). Shelf life of properly stored, unopened containers is 24 months.

Surface Preparation:

Remove all dirt, grease, oil, and other foreign material that may prevent a good bond by shot or sand blasting. Use clean, oil free, compressed air to blow out any remaining dust or debris prior to installation.

Mixing

Precondition material to 65°-85°F (18°-29°C) before using. Measure and mix one part by volume of Part A with one part by volume of Part B for three minutes with a low speed (< 450 rpm) drill using a jiffy mixer or paddle. Mix only as much material as can be used within the pot life. Air, material, and surface temperature must be 50°F (10°C) and rising prior to mixing or installation.

Placement:

Within 5 minutes of mixing pre-treat larger cracks and then flood coat Bridge Seal 75% onto the bridge deck. Immediately distribute evenly and work into concrete for a minimum of 5 minutes for maximum penetration. Keep ponding Bridge Seal 75% into cracks until refusal. Remove all excess with a squeegee on smooth surfaces and a broom on textured surfaces. Surface should appear damp but with no ponding prior to broadcast of the sand. Before Bridge Seal 75% gels, broadcast dry silica sand evenly over entire surface. Typical broadcast aggregate rates are 0.3-0.4 lbs. per square ft (1.5-2.0 kg/square M). This may vary depending on the sand size. Blow-off excess sand after surface is tack free, typically 3-4 hours at 70°F (21°C) and before reopening to traffic. Cooler temperatures will require a longer cure time. Sand broadcast provides for initial skid resistance of the residual epoxy remaining on the surface. This epoxy and sand will wear away over time.

CLEAN UP

Tools and Equipment: Clean before the epoxy sets up. Use Xylene or Unitex Citrus Cleaner.

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LIMITATIONS

FOR PROFESSIONAL USE ONLY

Concrete should be dry and must be a minimum age of 21-28 days from date of placement depending on curing and drying conditions. Do not thin with any solvents.

Surface, ambient air, and material temperatures must be 50°F (10°C) or above.

Do not expose stored or uncured product to cold or freezing temperatures below 35°F (2°C) for any length of time.

Note: High temperatures will accelerate the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F (24°C).

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Component A – Irritant
- Component B – Corrosive
- Flammable
- 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

Dayton Superior Corporation
1125 Byers Road
Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 877-266-7732
Website: www.daytonsuperior.com

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.

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.