UNITEX
By Dayton Superior

Bridge Seal 75%

Penetrating Epoxy Healer/Sealer

TECHNICAL DATA SHEET

DESCRIPTION

Bridge Seal 75% is a highly-penetrating, two-component epoxy healer/sealer. When applied to cracked bridge decks or elevated concrete, Bridge Seal 75% 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 Green
Gel time – ASTM C881
60 gm sample @ 73°F (23°C): 50-60 min.
Bond Strength: (ASTM C882) 2,000 psi
Tensile Elongation: (ASTM D638) 40%
Tensile Strength: (ASTM D638) 3000 psi
Absorption: (ASTM D570) 0.25%

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: 60 to 80 sq. ft/gal. (1.5 to 2.0 sq m/L)
Steel Trowel Finish: 80 to 150 sq. ft/gal. (2.0 to 3.7 sq m/L)

Packaging

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

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 the 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.

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Cure Time

Bridge Seal 75% Minimum Cure Time

Substrate Temp.		Cure Time
Fahrenheit	Celsius	
50	10	13 hrs.
60	15	10 hrs.
70	21	6.5 hrs.
80	27	3 hrs.
90	32	1.1 hrs.
100	38	40 min.
110	43	30 min.

CLEAN UP

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

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.

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