

# TECHNICAL DATA SHEET

BARRICADE™ Concrete Repair Crack Prep Surface Paste | Revision Date 27/6/2022

2311 Royal Windsor Drive  
Mississauga, ON L5J 1K5  
P: 1-855-872-3996  
E: help@barricadesubfloor.com

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## 1. DESCRIPTION

BARRICADE™ Concrete Repair Crack Prep Surface Paste is a two-component, 100% solids, moisture-insensitive, high strength, high modulus, multi-purpose liquid epoxy gel adhesive. It meets the current ASTM C881 and AASHTO M235 Types I, II, IV & V Grade 3, Classes B & C specifications. It has passed 4 million cycles of simulated seismic tension test.

## 2. WHERE TO USE

Use BARRICADE™ Concrete Repair Crack Prep Surface Paste as an adhesive for setting/bonding subsurface or external reinforcements to concrete masonry or other substrates. It can also be used for reinforcing steel dowels, threaded rods, bolts, and inserts into existing concrete. Use as a multipurpose bond adhesive for structural bonding fresh or hardened concrete to hardened concrete, sealing cracks, setting Rhino injection ports prior to injection grouting, and as a pick-proof sealant.

## 3. ADVANTAGES

- Moisture tolerant
- High strength, high modulus structural adhesive
- Convenient 1:1 mix ratio by volume
- Rapid cure formula
- Agency Independent testing lab certification
- Solvent free
- No-sag gel consistency

## 4. SHELF LIFE / STORAGE

24 month shelf life when stored in unopened containers in dry conditions and stored at 40°F-95°F (4°C-35°C)

## 5. TECHNICAL DATA BARRICADE™ Concrete Repair Crack Prep Surface Paste

BARRICADE™ Concrete Repair Crack Prep Surface Paste	
Storage Conditions:	40°F – 95°F (4°C – 35°C).
Condition material to:	65°F – 85°F (18°C – 29°C) before using.
Mix Ratio	1:1 by volume
Viscosity	¼ inch no-sag gel
Gel Time (60 g mass)	10 minutes
Tack Free Time (73°F or 23°C)	2 to 3 hours
Tensile Properties (ASTM D638), 7 day cure	
Tensile Strength:	7,500 psi (51.7 MPa)
Tensile Elongation:	1.2%
Bond Strength (ASTM C882)	
1 day cure:	2,000 psi (13.8 MPa)
7 day cure:	2,500 psi (17.2 MPa)
Compressive Properties (ASTM D695), 7 day cure	
Compressive Strength:	12,500 psi (86.2 MPa)
Compressive Modulus:	300,000 psi (2,070 MPa)
Shear Strength (ASTM D732)	2,800 psi (19.3 MPa)
Shrinkage on Cure (ASTM D2566)	0.001
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	140°F (60°C)
Water Absorption (ASTM D570)	0.1% (24 hr)

\*NOTE: Epoxy cure is affected by temperature. Low temperatures will increase cure time, higher temperatures with decrease cure time.

## 6. CONDITION PRODUCT

Condition cartridge and contents to a temperature of 65°F to 95°F (18°C - 35°C) for easier dispensing.

## 7. LIMITATIONS & WARNINGS

Minimum substrate temperature is 40°F (5°C). Do not thin. Solvents will prevent proper cure.

## 8. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete installation instructions on various applications using BARRICADE™ Concrete Repair High Strength Anchoring Epoxy Paste visit [www.barricadesubfloor.com](http://www.barricadesubfloor.com) or call Barricade for more information at 1-855-872-3996.



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## 9. SURFACE PREPARATION

BARRICADE™ Concrete Repair Crack Prep Surface Paste is an ideal bonding agent for multiple surfaces including concrete, brick, stone, block, and metal. Surfaces must be clean and profiled or textured. New concrete must be a minimum of 28 days old. All dirt, oil, debris, wax, grease or dust must be removed. Prepare the surface mechanically using a scarifier, sandblast, shot blast, bush hammer or other equipment that will give the surface profile needed for the application. A roughened surface that exposes the aggregate and/or pores of the substrate is imperative for good adhesion.

## 10. CLEAN UP

Clean tools and equipment with Mighty Wipes by Barricade, a biodegradable formula, that removes and neutralizes the epoxy. Do not allow epoxy to harden on equipment as cured material can only be removed mechanically.

## 11. SAFETY

Please refer to the SDS for BARRICADE™ Concrete Repair Crack Prep Surface Paste published on our Website, [www.barricadesubfloor.com](http://www.barricadesubfloor.com) or call Barricade for more information at 1-855-872-3996. This TDS sheet is not intended to list all Safety and Health Requirements necessary for the installation of these products. All Health and Safety Requirements required by OSHA shall be followed.

## 12. WARRANTY

Barricade warrants to the Buyer that this product is in good quality and conforms to the manufacturer's specifications in force on the date of manufacturer when used in accordance with the Installation Instructions and when stored as directed in the technical literature.

Manufacturer cannot warrant or guarantee any particular method of use, performance or application under any particular condition and Buyer is responsible for determining the suitability of intended purpose and assumes all risks therein. Barricade shall not be liable for any injury, loss, cost of labor or consequential damages either directly, indirectly or incidentally, arising out of the use or misuse of any product sold by Barricade or another distributor. If the product is proven to be in non-conformance, the Buyers sole remedy shall be a refund of the purchase price or replacement of product.

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## 1. DESCRIPTION

BARRICADE™ Concrete Repair Crack Injection Expanding Foam is a two-component, low viscosity, self-expanding polyurethane foam designed for sealing cracks in structural materials including concrete, masonry and wood through low pressure, gravity feeding injection. It has been designed to expand approximately 15 times its volume in non-confined, dry spaces.

## 2. WHERE TO USE

Use to fill voids and cracks in concrete, masonry or other substrates.

## 3. ADVANTAGES

- Ideal for vertical repairs through injection ports
- Interior and exterior applications
- Conveniently fits dual cartridge epoxy gun
- Expands to fill voids with or without water
- No messy self-mixing through static mixer nozzle
- Low viscosity – easy to inject and flows into small cracks
- Moisture tolerant and blocks moisture

## 4. SHELF LIFE / STORAGE

24 month shelf life when stored in unopened containers in dry conditions and stored at 40°F-100°F (5°C-38°C)

## 5. TECHNICAL DATA

PROPERTY	VALUE (MIXED)
Expansion (in dry conditions, unconfined)	15 times original volume
Color	Yellow - Brown
Solids (%)	100
Brookfield viscosity (cPs, RCVF #6 spindle @ 20 rpm, max)	450
Initial point of expansion/working time (77°F or 25°C)	3 minutes

NOTE: The above properties are typical characteristics not to be considered as specifications.

## 6. CURING TIME

BARRICADE™ Concrete Repair Crack Injection Expanding Foam has a working time of 3 minutes at 77°F (25°C). At temperatures below 77°F (25°C) this product will take proportionately longer time to begin expanding. At temperatures above 77°F (25°C) it will take a proportionately shorter time to begin expanding. Thin layers (5 mil) will become tack-free in approximately 45 minutes 77°F (25°C).

## 7. APPLICATION TEMPERATURE

40°F (5°C) to 110°F (43°C). If ambient temperature is below 70°F (21°C), condition the cartridge to 70-75°F (21-24°C) for at least 1 hour before using it.

## 8. CONDITION PRODUCT

When the work environment or substrate falls below 70°F (21°C) condition the product to 70-75°F (21°C - 24°C) prior to use. Temperature will affect the workability and cure time of epoxy.

## 9. APPLICATION

Dispense product through the supplied static mixing nozzles into injection ports.

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## 10. LIMITATIONS & WARNINGS

- Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions.
- Subject to discoloration upon exposure to UV light.

## 11. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete installation instructions on various applications using BARRICADE™ Concrete Repair Crack Injection Expanding Foam, visit [www.barricadesubfloor.com](http://www.barricadesubfloor.com) or call Barricade for more information at 1-855-872-3996.

## 12. SURFACE PREPARATION

Remove dust, dirt, grease, laitance, curing compounds and other foreign matter by sandblasting, mechanical abrasion or hydro blasting. For drilled holes, clean with a nylon bristle brush. Remove all water and dust with clean compressed air prior to installation. BARRICADE™ Concrete Repair Crack Injection Expanding Foam has a low viscosity to reach most cracks, and upon expansion, will penetrate all thin cracks.

## 13. CLEAN UP

Clean tools and equipment with Mighty Wipes by Barricade, a biodegradable formula, that removes and neutralizes the epoxy. Do not allow epoxy to harden on equipment as cured material can only be removed mechanically.

## 14. SAFETY

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