

SOLHYDROC

SOLHYDFAST 5000

High Strength Concrete Repair

SOLHYDFAST 5000 is a flexible and tough concrete repair material with excellent adhesion. **SOLHYDFAST 5000** is a 100% solids, 2-component urethane designed to meet 5,000 psi compression strength requirements combined with excellent flexibility and resilience. Areas repaired with **SOLHYDFAST 5000** can be re-opened to traffic in less than one hour.

USES

TYPICAL USES:

- Roads/Highways
- Bridges
- Warehouse Floors
- Parking Decks
- Sidewalks
- Any crack or spall in concrete needing repair
- Concrete between rails

PRODUCT FEATURES

- Rapid Cure— as little as 1 hour return to service
- 100% Solids, No odor
- 1:1 Ratio by Volume—easy application
- Excellent concrete adhesion
- Minimal equipment requirements
- Ideal for concrete repairs where high strength material is required

SURFACE PREPARATION

The concrete surface to be repaired must be completely cured for 28 days, structurally solid (minimum of 200 psi as per ASTM D7234), clean (ASTM D4258) and dry (less than 5% humidity content AASTM E1907).

Concrete joints must be sound, dry and clean, free of foreign materials including old mastic, asphalt, tar, paint, wax, rust, membranes and other sealing and curing materials. Presence of contaminants can cause poor adhesion.

Remove all contaminants from the surface prior to applying **SOLHYDFAST 5000** by grinding, sanding or metallic brush.

- Use a 120 psi compressor (minimum continual compressed air) to blow all debris, dirt and dust before applying the product
- Remove all old joint sealing material by mechanical means
- If the side of the joints have absorbed oil, cut and remove a sufficient quantity of concrete to ensure a sound, clean surface free of all contaminants.
- **SOLHYDFAST 5000** is designed for repair of cracked and spalled concrete. Joints must remain flexible and support movement. Movement of the underlying concrete substrate can cause cracking along the sides of the repair or transmit cracking through finish coats.
- **SOLHYDFAST 5000** is not recommended for applications on bituminous material, soil, dirt, lawns or other non-structural materials.

MATERIAL PHYSICAL PROPERTIES @ 25°C (77°F)

PHYSICAL PROPERTIES		
	Result	ASTM
Solids Content	100%, SCAQMD compliant	D2369
Tack-Free Time	10 minutes	C679
Concrete Adhesion, unprimed	600 psi (4.1 MPa), concrete failure	D4541
Concrete Adhesion, primed	1,200 psi (8.3 MPa), concrete failure	D4541
Compression Strength, Gravel aggregate, 3.5 hour ambient cure	1,500 psi (10.3 MPa)	C109
Compression Strength, Gravel aggregate, 158°F (70°C) overnight cure	5,000 psi (34.5 MPa)	C109
Hardness	70 Shore D	C661
Mix Ratio (by Volume)	1:1	–

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PRODUCT MIXING

If possible, maintain material at 21°C (70°F) before usage. Mix resin 1 to 2 minutes in the original container before usage. For cartridge use, shake each cartridge for at least one minute before usage. Do not dilute resin or ISO with solvents. Contact your local **SOLHYDROC** representative for more information. **SOLHYDFAST 5000** must be mixed mechanically using a drill with mixing paddle or manually with a mixing paint stick. Be careful to mix vigorously and apply rapidly the material on the concrete surface to avoid pot life problems.

PRODUCT APPLICATION

- Before applying protect adjacent surfaces using tape or other types of protection barriers. Corners and sharp edge repairs might require construction of barriers using tape or other construction materials in order to keep material in place during hardening.
- Use **SOLHYDFAST 5000** in well ventilated areas only. The material contains solvents that might irritate eyes, skin, lungs and can contain combustion risks. Wear appropriate EPI approved protection during handling. Consult MSDS sheets for more information.
- Concrete is a porous material containing air. When temperature increases, the air dilates. This phenomena, outgassing, can produce pinholes or bubbling in the matrix. To reduce these risks, apply **SOLHYDFAST 5000** when the temperature of the concrete is stable or decreasing.
- Make sure the mixing station is a short distance from the application area since the pot life of the product is relatively short.

Consult your **SOLHYDROC** representative for more information.

ESTIMATING/YIELD

YIELD: Linear feet per gallon

Width (in)	1/8	1/4	1/2	1
Depth	95	47	24	12

YIELD: Linear feet per cartridge

Width (in)	1/8	1/4	1/2	1
Depth	14.8	7.4	3.7	1.8

YIELD: Volume (depth 2")

RATIO DE MÉLANGE

Final volume	Container	Resin	ISO
1 qt (1 L)	1 gal (3.8 L)	1 pt (0.5 L)	1 pt (0.5 L)
1 gal (3.8 L)	2 gal (7.6 L)	1/2 gal (1.9 L)	1/2 gal (1.9 L)

PACKAGING

20 oz (600 mL) Cartridge
50 oz (1500 mL) Cartridge
SOLHYDFAST 5000 Kit (aggregate included)
SOLHYDFAST 5000 High-Yield Kit
5 Gallon (19 Liter) Pail
50 Gallon (190 Liter) Drum
200 Gallon (757 Liter) Tote

COLORS

Gray

SHELF LIFE

1 year when properly stored.

STORAGE

Store and ship this product in clean, dry, low-humidity, and shaded or covered environments between 50 and 90°F (10-32°C)

SAFETY

See Material Safety Data Sheet.

SOLHYDROC WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. SOLHYDROC makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

For Professional Use Only

www.solhydrop.com