

SOLHYDPATCH

Fast setting polymer modified cement based patching compound

SOLHYDPATCH is a quick setting cement based polymer modified patching compound for repairing and leveling floors prior to the installation of floor coverings. **SOLHYDPATCH** allows a hard, smooth troweled surface to be easily achieved.

USES

Patching and repair of damaged surfaces and uneven floors.

TYPICAL USES:

- Over concrete, terrazzo, ceramic/quarry tile, epoxy coatings* (see "Priming section") and approved wood subfloors prior to the installation of finished floor covering
- Ideal for screeding, ramping, patching & skimcoating
- Filling holes, cracks, voids prior to the installation of floor coverings
- Repairing and leveling of rough, uneven concrete and wood floor surfaces
- When combined with **SOLHYDFLOW EMULSION**, **SOLHYDPATCH** can be used to level substrates that must be leveled before receiving vinyl tiles (PVT) or other types of linoleum, terrazzo or surfaces with residual cutback adhesive and other difficult surfaces

PRODUCT FEATURES

- Fast setting and exceptional compressive strength 35 MPa
- Easy to use
- Excellent bond to concrete
- Compatible with all adhesives approved for concrete
- Install floor covering in as little as 1 to 2 hours after application
- Can be applied from featheredge to 50mm (2") neat
- Shrink resistant
- No priming required
- Excellent yield
- Environmentally friendly - contributes points to LEED Certified Projects

SURFACE PREPARATION

CONCRETE & NON POROUS SUBSTRATES

Surface must be dry, sound, clean, free of oil, wax, sealers, asphalt, paint, dirt, gypsum or latex patches, urethanes, adhesives, loose material and any contaminant that may act as a bond breaker. Weak surfaces must be cleaned by mechanical means such as chipping, *shot-blasting* or grinding. Never use acid, chemical cleaners or mastic removers on any surface to which a **SOLHYDROC** product will be applied. Non Porous surfaces must be abraded to a dull finish. All surfaces must be minimum 10°C (50°F).

NOTE: SOLHYDPATCH is not a vapor barrier and will allow the free passage of moisture. Always follow the guidelines of the Finished Flooring Manufacturer concerning maximum allowable subfloor RH (*Relative Humidity*) per ASTM F-2170 and MVER (*Moisture Vapor Emission Rate*) per ASTM F-1869. If level exceeds these limitations, use a proper moisture vapor inhibitor before applying **SOLHYDPATCH**.

WOOD SUBSTRATES

3/4" tongue and groove exterior APA rated Type1 plywood, OSB or other flooring manufacturer approved underlayment. Surface must be clean, free of varnish, paint, adhesives, patching compounds or any contaminant that interferes with bond. If needed, sand down to bare clean wood. Any moving boards must be secured with deck screws. Subfloor must be free of deflection (min. 1/360), considering both live and dead loads. Use an approved anti-fracture membrane over **SOLHYDPATCH** in areas where installing tile or stone.

PHYSICAL MATERIAL PROPERTIES @ 21°C (70°F)

COMPRESSIVE STRENGTH ASTM C109-93 2" (50MM) CUBES			HARDENING	
6 hours	13.8 MPa	(2000 psi)	Working time	10 to 15 minutes
24 hours	20.7 MPa	(3000 psi)	Initial set time ASTM C191	35 minutes
7 days	33.8 MPa	(4900 psi)	Final set time ASTM C191	45 minutes
28 days	37.9 MPa	(5500 psi)		
LENGTH CHANGE ASTM C157				
Time	Air cure			
28 days	- 0.011%			

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PRIMING

STANDARD ROUGH ABSORBENT CONCRETE

No priming required. For best results, when ramping, placing high thicknesses or working on very porous concrete, apply one thin coat of **SOLHYDFLOW PRIMER PLUS** (diluted with 3 parts of clean potable water) with an exploded tip broom. Allow to dry (minimum 1 hour, maximum 24 hours) before applying **SOLHYDPATCH**.

NON POROUS SUBSTRATES

Burnished concrete, terrazzo, ceramic & epoxy. Apply one thin coat of **SOLHYDFLOW PRIMER PLUS** neat using a 5 mm (1/4") nap roller. Do not leave bare spots or excess primer. Allow to dry (min. 2 hours, max. 24 hours).

WOOD SUBSTRATES

For skimcoat application of **SOLHYDPATCH** up to 6 mm (1/4"), no primer is required. When ramping or placing material 6 mm to 20 mm (1/4" - 3/4"), prime surface with **SOLHYDFLOW PRIMER PLUS** neat using a 5 mm (1/4") nap roller. Allow prime coat to dry (min. 1 hour). **SOLHYDPATCH** must be applied while the primer is still *tacky* (max. 12 hours).

*EPOXY COATING

The use of **SOLHYDPRIME 100** (broadcast clean No.24 round silica sand to saturation) is recommended over existing epoxy coated floors. Remove any excess of sand after 8 hours of drying and then apply **SOLHYDPATCH**.

ESTIMATING/YIELD

One 22.7kg (50lbs) bag mixed with 6.6L of clean potable water will cover approximately 12.6m² (136ft²) at an average thickness of 1mm.

Coverage: Per 22.7kg (50lbs) bag.

Nominal Thickness	Approximate Coverage
3mm (1/8")	4.8m ² (45.0 ft ²)
6mm (1/4")	2.09 m ² (22.5 ft ²)

PRECAUTIONS/RESTRICTIONS

- Apply to pre saturated surface only
- Do not apply on fresh concrete
- Do not use bonding agent
- Do not apply at temperature under 5°C (40°F)
- Do not add admixture to this product
- Do not add limestone as fill aggregate

PRODUCT MIXING

CONCRETE & NON POROUS SUBSTRATES

Mix **SOLHYDPATCH** with cool clean potable water and follow *Standard Mixing Instructions*.

WOOD SUBSTRATES

The addition of **SOLHYDFLOW EMULSION** is required on all applications over wood. Dilute 1 part **SOLHYDFLOW EMULSION** to 1 part cool water to create *mixing liquid* and follow *Standard Mixing Instructions*.

STANDARD MIXING INSTRUCTIONS

Mix the amount of **SOLHYDPATCH** that can be placed within 10 to 15 minutes at 21°C (70°F). Add 3.3L to 3.8L of mixing water for each 11.3kg (25lbs) bag of **SOLHYDPATCH**. The 0.5L gap is intended to obtain the desired consistency by the applicator. Do not add additional mixing liquid if not required. Always add the product to the mixing water. Using a 1/2" heavy duty drill with mixing paddles, mix until a lump free creamy consistency is achieved, with no bleeding water. Smaller quantities can be mixed by hand using a margin trowel at the rate of 3.5 parts of powder to 1 part liquid by volume.

NOTE: High temperatures, over mixing, mixing with warm water or less liquid will shorten working times.

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PRODUCT APPLICATION

Expansion joints in the substrate must be reflected through the **SOLHYDPATCH**.

SKIMCOATING

Using a steel trowel, simply pull material tight, forcing it into the surface while filling and smoothing minor voids and imperfections. If more build is required, float material back over itself placing and finishing the material as need to correct the substrate. Once the initial set (or initial sheen flashes off), ridges can be troweled back down before the final set to avoid sanding or scraping.

RAMPING

Place mixed material immediately. Using a trowel for small ramps or screed for larger ones, simply pull tool over the **SOLHYDPATCH**. Its unique consistency requires no agitation and it will leave a true plane. Allow the water sheen to flash off and then do final finishing after initial set. Do not temper the surface with water when finishing.

CONTROL JOINTS (WOOD SUBSTRATES)

To minimize the possibility of cracking if placing **SOLHYDPATCH** over large areas at thicknesses between 12mm & 20mm (1/2" & 3/4"), create control joints to isolate sections of approximately 3m² (33ft²). To create a joint, place a straight edge over **SOLHYDPATCH** immediately after finishing and with the tip of a steel trowel slice a line through the material to the subfloor. After final set, joints can be lightly skimmed over with **SOLHYDFINISH**.

PRODUCT NOTES

During application and for first 24 hours, prevent excessive air movement but maintain adequate ventilation. Protect material from direct sunlight. These variables can cause uneven curing patterns a false set and cracking.

CURING

SOLHYDPATCH is self-curing no wet curing methods or cure and seals should be used. Cooler temperatures, higher humidity and inadequate ventilation can extend drying times.

PACKAGING

SOLHYDPATCH	22.7kg (50lbs) bags
	Qty: 56 units per pallet
SOLHYDFLOW PRIMER PLUS	18.9L pail (5 US gal) 3.8L (1 US gal) unit
	Qty: 4 units per case
SOLHYDFLOW EMULSION	3.8L (1 US gal) unit
	Qty: 4 units per case

RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory installation :

- Steel, Wooden or Magnesium Trowels
- 1/2" heavy duty drill with a paddle mixer
- 5mm (1/4") nap roller

CLEANING

Use water to clean all tools immediately after use.

ELIGIBLE LEED® CREDITS : 3

Regional Materials (MR 5.1 & 5.2)

2 Points

Low Emitting Materials (EQ 4.1)

1 Point

STORAGE

SOLHYDPATCH

Shelf Life:

Store in a dry and tempered area
6 months in original bag

SOLHYDFLOW PRIMER PLUS SOLHYDFLOW EMULSION

Avoid freezing
Avoid freezing

SECURITY

See Material Safety Data Sheet. Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Avoid breathing dust.

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

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