



SOLHYDPLUG

Very fast setting repair mortar
for stopping active water leaks

SOLHYDPLUG is a very fast setting repair mortar specially formulated to plug and stop active water leaks and to repair concrete structures. SOLHYDPLUG is also used for sealing cracks and for setting injection ports for concrete injection work. SOLHYDPLUG is available in four (4) setting time options: 45 seconds, 1 to 3 minutes, 3 to 5 minutes, and 5 to 10 minutes.

■ USES

SOLHYDPLUG is used to stop active water leaks and to seal cracks to enable crack injection work.

TYPICAL USES:

- Plug water leaks in concrete walls or structures
- Repairs to prefabricated concrete pipes and structures
- Plug leaks and perform substrate repairs in pipes and manholes
- Fast repairs and return to service of water treatment infrastructure

■ PRODUCT FEATURES

- Excellent bond to concrete
- Very fast set time
- Dimensionally stable
- Shrinkage compensated
- Can be applied at various thicknesses
- Good chemical resistance to corrosive solutions commonly present in wastewater environments and to sulfates present in the wastewater treatment conduits and plants
- Very easy to use

■ SURFACE PREPARATION

A good surface preparation is obtained when the repair mortar is solidly bonded to the substrate. Surfaces to be repaired must be clean and rough. Remove any existing curing agent, oil, grease, delaminated concrete, dust, debris or any other substance that may inhibit bond. Remove concrete to form a V groove, or simply a hole.

■ PRIMING

No primer required.

■ PRODUCT MIXING

- Mix the product until it reaches a modeling clay-like consistency.
- A typical mix would be 1,200 g of powder with 300 ml of potable water, mixed vigorously for 30 seconds to achieve a uniform consistency.
- Always add the powder to the water during the mixing sequence.

MATERIAL PHYSICAL PROPERTIES @ 23°C (73°F)

COMPRESSIVE STRENGTH ASTM C109			SET TIMES ASTM C266				
28 days	35 MPa	(5,075 psi)		PLUG 45 s *	PLUG 1-3 min	PLUG 3-5 min	PLUG 5-10 min
TENSILE STRENGTH ASTM C882			Initial set	45-75 s	Approx. 2 min	Approx. 3-5 min	Approx. 5-10 min
1 day	12.9 MPa	(1,870 psi)	Final set	65-90 s	Approx. 3-4 min	Approx. 4-6 min	Approx. 6-12 min
7 days	20.7 MPa	(3,000 psi)					

*Allows mixing for 25-30 seconds before final set time.



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■ PRODUCT APPLICATION

Insert SOLHYDPLUG into leak's opening until it is plugged. For prefabricated concrete structures, apply SOLHYDPLUG manually to fills all voids and honeycombs using rubber gloves.

■ CURING

SOLHYDPLUG is a self-curing material.

■ ESTIMATING / YIELD

SOLHYDPLUG is packaged in 22.7 kg (50 lbs) bags or pails that yield a volume of approximately 12 L (0.42 pi³) when mixed with potable water. Each bag will cover approx. 1m² (11 pi²) at a thickness of 10 mm.

■ PRECAUTIONS / RESTRICTIONS

- Do not apply over fresh or partially cured concrete
- Do not use a bonding agent
- Do not apply at temperatures below 2°C
- Do not add any admixtures to this material

■ PACKAGING

SOLHYDPLUG:

22.7 kg (50 lbs) bags or pails

■ RECOMMENDED TOOLS

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

- Rubber gloves
- Mixing recipient
- Masonry trowel

■ CLEANING

Use water to clean all tools and equipment.

■ STORAGE

Store material in a dry, temperate area.

■ SAFETY

See Material Safety Data Sheet.