



SOLHYDFLOW GROUT

Cementitious Precision Non-Shrink Grout for Precision Alignment

SOLHYDFLOW GROUT is a ready to use, portland cement based, mineral aggregate grout intended for precision machinery, equipment and base plate grouting applications at thickness between 3 mm to 50 mm (1/8" to 2").

■ USES

For use in precision grouting applications where a fluid consistency non-shrink grout is required.

TYPICAL USES:

- Supporting compressors, pumps, motors, generators, paper making machinery baseplates and soleplates
- Columns and machinery baseplates
- Rails
- Structural and non-structural building members, wall panels, beams, columns, etc.
- Anchor bolts, bars, rods
- Reinforcing bars or rods

■ PRODUCT FEATURES

- Meets or exceeds ASTM C-1107-17
- Excellent workability at fluid, flowable and plastic consistencies
- Non-shrink, non-bleeding and non-segregating
- Interior or exterior applications
- Pumpable
- Non-corrosive ingredients
- Extended working time-up to 1 hour
- High early and ultimate strength
- Compatible with corrosion inhibitor *

■ SURFACE PREPARATION

Surfaces in contact with SOLHYDFLOW GROUT must be totally exempt of oil, grease, laitance and other foreign materials. Roughen surface to ensure a good bond to existing concrete. Clean thoroughly with potable water to render the surface saturated without free standing water.

■ PRIMING

No primer required.

■ PRODUCT MIXING

- SOLHYDFLOW GROUT should be vigorously mixed.
- Simply vary the amount of mixing water to obtain the consistency required.
- Pour 4/5 of the amount of clean water provided according to desired consistency.
- Add SOLHYDFLOW GROUT slowly kneading by means of a mixer at low speed (300 - 450 rpm).
- Add 1/5 of remaining water until consistency is obtained desired and knead for 3 minutes.
- Avoid mixing too much.
- Only mix the amount of product that can be put in place before the initial shot.

*For more information regarding the use of corrosion inhibitors, contact your BMO SOLUTIONS representative.

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

COMPRESSIVE STRENGTH ASTM-C109 (cube 50mm x 50mm)			FLEXURAL STRENGTH ASTM C-348		
Fluid			7 days	11.4 MPa	(1,650 psi)
1 day	35.9 MPa	(5,200 psi)	28 days	11.7 MPa	(1,700 psi)
3 days	48.3 MPa	(7,000 psi)			
7 days	54.2 MPa	(7,600 psi)			
28 days	66.9 MPa	(9,700 psi)			
Flowable					
1 day	41.4 MPa	(6,000 psi)			
3 days	56.6 MPa	(8,200 psi)			
7 days	63.4 MPa	(9,200 psi)			
28 days	77.2 MPa	(11,200 psi)			
Plastic					
1 day	51.7 MPa	(7,500 psi)			
3 days	58.6 MP	(8,500 psi)			
7 days	65.5 MPa	(9,500 psi)			
28 days	80.0 MPa	(11,600 psi)			
			TENSILE STRENGTH ASTM C-190		
			3 days	3.4 MPa	(490 psi)
			7 days	3.7 MPa	(530 psi)
			28 days	3.9 MPa	(560 psi)
			EXPANSION ASTM C-157		
			Fluid	Flowable	Plastic
			3 days	+0.03 %	+0.12 %
			28 days	+0.03 %	+0.12 %
			Litres	4.25	3.50
				3.50	3.30



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■ PRODUCT APPLICATION

When formwork is necessary it must be firmly fastened and water tight.

PLACING:

Pour SOLHYDFLOW GROUT in formwork from one side only to avoid entrapping air. Placement must be done in one continuous operation to eliminate voids and ensure maximum uniform support.

■ CURING

All exposed grout should be moist cured with wet rags for 3-5 days then followed with 1-2 coats of a membrane curing compound approved by BMQ SOLUTIONS. Before proceeding with the setting up of a curing agent, a minimum period of water curing of 24 hours is recommended (Ref ACI 308). Machinery or structure can be put back into service as soon as the desired minimum strength is attained.

■ ESTIMATING / YIELD

A 22.7 kg (50 lb) bag of SOLHYDFLOW GROUT mixed with 4.25 L (4½ quarts) of potable water will yield 12L (0.43 pi³) of grout mixed at a 25 second flow on the cone @ 21°C (70°F) [ASTM C-939-87]. For applications where thickness of grout will be greater than 50 mm (2"), add up to 6.8 kg (15 lb) of 10 mm (3/8") washed, clean, dry stone per 22.7 kg (50 lb) bag of SOLHYDFLOW GROUT.

COVERAGE PER 22.7KG (50LB) BAG:

Nominal Thickness	Approximate Coverage
3 mm (1/8")	10 m² (44 ft²)
6 mm (1/4")	5 m² (22 ft²)
12.5 mm (1/2")	2,5 m² (11 ft²)

■ PRECAUTIONS / RESTRICTIONS

- Do not use this product for post-tensioned or prestressed cables, anchors or dowels where anticipated stress will be over 80,000 psi (552 MPa).
- Optimum recommended temperatures for the foundation, plate, and mixed grout, as well as ambient are between 7°C (45°F) and 32°C (90°F).
- Do not add aggregate based on limestone
- Do not use vibration while placing material

■ CONDITIONNEMENT

SOLHYDFLOW GROUT:

50 lb (22.7 kg) bag
56 bags per pallet.

■ RECOMMENDED TOOLS

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

- Power drill with "Jiffy" type mixer
- Magnesium or Steel trowel
- Flow Cone
- Grout pump for large volume applications

■ CLEANING

Use water and soap to clean all tools immediately after use.

■ STORAGE

Store in cool dry heated area on skids avoiding all moisture. Can be kept in unopened bags for 18 months.

■ SAFET

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.

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

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