



SOLHYDGROUT ULTRA

High-performance durable non-shrink precision grout
with Portland cement-based

SOLHYDGROUT ULTRA is a high-performance, durable, non-shrink precision grout formulated with Portland cement. It is designed to provide uniform load transfer under baseplates and machinery. Its proven durability, including resistance to freeze-thaw cycles (ASTM C666), makes it suitable for demanding interior and exterior applications.

■ 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
- Very low chloride ion permeability
- Compatible with corrosion inhibitor *

■ SURFACE PREPARATION

Surfaces in contact with SOLHYDGROUT ULTRA 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

- SOLHYDGROUT ULTRA must be thoroughly mixed.
- Vary the quantity of water per bag to obtain the desired consistency.

■ PRODUCT APPLICATION

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

PLACING:

SOLHYDGROUT ULTRA 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.

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

MATERIAL PHYSICAL PROPERTIES @ 23°C (73°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)	TENSILE STRENGTH ASTM C-190		
7 days	54.2 MPa	(7,600 psi)			
28 days	66.9 MPa	(9,700 psi)			
Flowable			3 days	3.4 MPa	(490 psi)
1 day	41.4 MPa	(6,000 psi)	7 days	3.7 MPa	(530 psi)
3 days	56.6 MPa	(8,200 psi)	28 days	3.9 MPa	(560 psi)
7 days	63.4 MPa	(9,200 psi)	EXPANSION ASTM C-157		
28 days	77.2 MPa	(11,200 psi)			
Plastic					
1 day	51.7 MPa	(7,500 psi)	Fluid	Flowable	Plastic
3 days	58.6 MP	(8,500 psi)	3 days	+0.03 %	+0.19 %
7 days	65.5 MPa	(9,500 psi)	28 days	+0.03 %	+0.12 %
28 days	80.0 MPa	(11,600 psi)	Litres	4.25	3.50
			3.30		
			RAPID CHLORIDE PERMEABILITY ASTM C-1202		
			28 days	< 500 coulombs	
			FREEZE / THAW RESISTANCE ASTM C666		
			300 cycles	MEDR > 80%	



SOLHYDGROUT ULTRA

Portland Base Cementitious
Precision Non-Shrink Grout

■ CURING

By covering grout with wet burlap for at least 3 days and by applying a curing compound, the curing becomes much more efficient. 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 SOLHYDROC. 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 SOLHYDGROUT ULTRA mixed with 4.25 L of potable water will yield 12L (0.43 ft³) of grout mixed at a less than 75 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 SOLHYDGROUT ULTRA.

COVERAGE PER 22.7KG (50LB) BAG:

<i>Nominal Thickness</i>	<i>Approximate Coverage</i>
3 mm (1/8")	10 m ² (44 ft ²)
6 mm (1/4")	5 m ² (22 ft ²)
12.5 mm (1/2")	2,5 m ² (11 ft ²)

■ 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

■ CONDITIONNEMENT

SOLHYDGROUT ULTRA:

50 lb (22.7 kg) bag or pail
50 bags per pallet.
36 pails 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.