

SOLHYDROGROUT G.C.

Portland Cement, Mineral Aggregate Grout for General Construction

SOLHYDROGROUT G.C. is a portland cement, mineral aggregate grout intended for use in general construction for repairs up to 50mm (2")

USES

For use in general purpose commercial, industrial and infrastructure grouting applications.

TYPICAL USES:

- Precast panel grouting
- Columns and machinery baseplates
- Anchor bolts
- Roadway dowel rods
- Concrete voids or cavities
- Pressure grouting of realigned slabs

PRODUCT FEATURES

- Meets or exceeds ASTM C-1107-17
- Excellent workability at fluid, flowable and plastic consistencies
- Economical
- Non-shrink, non-bleeding and non-segregating
- Interior and exterior application
- Ready for use with addition of water
- Chloride free
- Can be extended with properly graded aggregate

SURFACE PREPARATION

Surfaces in contact with **SOLHYDROGROUT G.C.** 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

SOLHYDROGROUT G.C. must be thoroughly mixed. Vary the quantity of water per bag to obtain the desired consistency.

PRODUCT APPLICATION

PLACING:

When formwork is necessary it must be firmly fastened and water tight. Pour **SOLHYDROGROUT G.C.** in formwork from one side only to avoid entrapping air. Placement must be done in one continuous operation to eliminate voids.

FINISHING:

Consult **SOLHYDROC** Grouting Manual.

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

COMPRESSIVE STRENGTH ASTM C-109 cube 50mm x 50mm			SET TIME ASTM C-191			
Fluid			Fluid	Flowable	Plastic	
1 day	21.4 MPa	(3100 psi)	Initial	5h53	4h37	2h15
3 days	38.3 MPa	(5550 psi)	Final	6h58	5h47	3h45
7 days	45.2 MPa	(6550 psi)	EXPANSION ASTM C-157			
28 days	53.5MPa	(7750 psi)	Fluid	Flowable	Plastic	
Flowable			3 days	+ 0.00%	+ 0.003%	+ 0.01%
1 day	29.7 MPa	(4300 psi)	14 days	+ 0.01%	+ 0.003%	+ 0.01%
3 days	43.6 MPa	(6300 psi)	28 days	+ 0.01%	+ 0.003%	+ 0.00%
7 days	51.6 MPa	(7500 psi)	Liters	5.20	4.78	4.20
28 days	61.4 MPa	(8900 psi)	(Quarts)	(5)	(4-1/2)	(4)
Plastic			RAPID CHLORIDE PERMEABILITY ASTM C-1202			
1 day	32.8 MPa	(4750 psi)	28 days	< 1500 Coulombs		
3 days	50.3 MPa	(7300 psi)				
7 days	60.0 MPa	(8700 psi)				
28 days	66.9 MPa	(9700 psi)				

SOLHYDROC

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CURING

By covering grout with wet burlap for at least 3 days or by applying a curing compound, the curing becomes much more efficient. Machinery or structure can be put back in service as soon as minimal strengths are attained. 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**

ESTIMATING/YIELD

One 25 kg (55 lbs) bag of **SOLHYDGRROUT G.C.** when mixed with 5.2 L of clean mixed water will yield approximately 14.2 L (0.46ft³) of mixed grout at a 25 second flow on the cone (ASTM C939-87) at 21°C (70°F).

SOLHYDGRROUT G.C. is supplied in 25 kg (55 lbs) kraft paper bags, reinforced with a 1 mil polyethylene inner lining to ensure moisture resistance.

Mixing water per 25 kg (55 lbs) bag:

Fluid	Flowable	Plastic
5.20 L (5 Quarts)	4.78 L (4½ Quarts)	4.20 L (1 gal)

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).

PACKAGING

SOLHYDGRROUT G.C. bags 25 kg (55 lbs)
Qty: 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 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.

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

www.solhydroc.com