

SOLHYDROC

SOLHYDGROUT S.F.A.

Cementitious Precision Non-Shrink Rail Grout

SOLHYDGROUT S.F.A. is a ready to use portland cement based mineral aggregate grout intended for the leveling and anchoring of rail support assemblies.

USES

For use in precision leveling and anchoring of rail support assemblies found in subway and Metro systems.

TYPICAL USES

- Machines and columns bases
- Sockets and anchors for road works and transport
- Consolidation of voids and cavities
- Anchoring of bolts which are an integral part of rail support assemblies.
- Support and leveling for sole plates of rail support assemblies.

PRODUCT FEATURES

- Meets or exceeds CRD C-621-89A, and -91A, & ASTM C-1107-91
- Excellent workability at fluid, 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

SURFACE PREPARATION

Surfaces in contact with **SOLHYDGROUT S.F.A.** 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.

ESTIMATING/YIELD

A 22.7 kg (50 lbs) bag of **SOLHYDGROUT S.F.A.** 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].

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

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

COMPRESSIVE STRENGTH ASTM C-109

Fluid		
4 hours	18.8 MPa	2725 psi
1 day	27.0 MPa	3915 psi
3 days	34.8 MPa	5045 psi
7 days	46.1 MPa	6685 psi
28 days	54.5 MPa	7900 psi
Flowable		
4 hours	20.2 MPa	2930 psi
1 day	29.1 MPa	4220 psi
3 days	36.7 MPa	5320 psi
7 days	48.8 MPa	7076 psi
28 days	55.9 MPa	8105 psi
Plastic		
4 hours	22.6 MPa	3277 psi
1 day	31.4 MPa	4553 psi
3 days	37.9 MPa	5550 psi
7 days	49.6 MPa	7200 psi
28 days	57.8 MPa	8400 psi

FLEXURAL STRENGTH ASTM C-78

7 days	3.7 MPa	536 psi
28 days	4.1 MPa	595 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 CRD C-621

	Fluid	Flowable	Plastic
3 days	+ 0.03%	+ 0.03%	+ 0.01%
28 days	+ 0.03%	+ 0.03%	+ 0.01%
Liters (quarts)	4.25	4.0	3.8

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■ PRODUCT MIXING

SOLHYDROGROUT S.F.A. must be thoroughly mixed with the recommended amount of water for 3 minutes.

■ PRODUCT APPLICATION

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

PLACING

Pour **SOLHYDROGROUT S.F.A.** 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.

FINISHING

Consult the **SOLHYDROC** Grouting Handbook.

■ 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.

■ PACKAGING

SOLHYDROGROUT S.F.A.

Bags or pg (50 lbs)
Qty: 50 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 9 month.

■ SAFETY

See Material Safety Data Sheet.

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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