SOLHYDGROUT SFA

Cementitious Precision
Non-Shrink Rail Grout

SOLHYDGROUT SFA 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.

PRODUCT MIXING

- SOLHYDGROUT SFA must be thoroughly mixed with the recommended amount of water for 3 minutes.

MATERIAL PHYSICAL PROPERTIES @22ºC (72ºF)

COMPRESSIVE STRENGTH ASTM C-109		
Flowable		
15 min	5.0 MPa	725 psi
30 min	10.0 MPa	1,450 psi
3 days	36.7 MPa	5,320 psi
7 days	48.8 MPa	7,076 psi
28 days	60.0 MPa	8,700 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

FLEXURAL STRENGTH ASTM C-78		
7 days	3.7 MPa	536 psi
28 days	4.1 MPa	595 psi

EXPANSION CRD C-621	
	Flowable
Working time	25 minutes
Initial	35-60 minutes
Final	40-75 minutes
Litres (Quarts)	4.0

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PRODUCT APPLICATION

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

PLACING

Place SOLHYDGROUT SFA into the formwork on one side only to avoid air entrapment. Placement must be done in one continuous operation to eliminate voids and ensure uniform support.

FINISHING

Use a steel or magnesium trowel.

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 BMQ SOLUTIONS. 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 lbs) bag of SOLHYDGROUT S.F.A. mixed with 4.25 L (4½ quarts) of potable water will yield 12L (0.43 pi^3) of grout mixed at a 25 second flow on the cone @ 22ºC (72ºF) [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 7ºC (45ºF) and 32ºC (90ºF).
- Do not add aggregate based on limestone

PACKAGING

SOLHYDGROUT SFA :

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.

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.

For Professional Use Only