SOLHYDGROUT EPOXY HS

High-precision epoxy grout
providing uniform support, exact alignment, and vibration control for heavy loads

SOLHYDGROUT EPOXY HS is an epoxy based precision grout offering superior physical properties designed to provide uniform support, precise alignment and vibration control under heavy equipment. SOLHYDGROUT EPOXY HS is a 100% solids, three component grout which is easily mixed (dust free) and applied at the job site.

USES

As a precision grout for support and critical alignment of the following heavy equipment:

TYPICAL USES:

- Pulp and Paper machine sole plate
- Mining crushers
- Petrochemical and Gas industry pumps, compressors and other heavy equipment
- Blowers, mills, crane rails, etc.

**Consult BMQ SOLUTIONS for specific exposure to chemicals in all your process.*

PRODUCT FEATURES

- Outstanding physical properties
- Excellent chemical resistance
- Quick set allowing fast turn around installations
- Very homogeneous mix and dust free mixing
- Develops high early strength
- 100% solids
- Exceptional bond to substrate
- Non shrink and non-creeping
- High Effective Bearing Area (EBA) > 96%

SURFACE PREPARATION

This is the single most important step. The life of the grouting system will be extended by following the suggested recommendations.

1. Concrete must be cleaned free of old existing coatings.
   - New concrete should cure a minimum of 28 days.
   - Best results are achieved on clean, dry substrates.
   - Preparation must be done mechanically to obtain a Contoured Surface Condition (CSP) of 6 - 10 according to ICRI Guide 310.2.
2. Remove all debris from working area.
3. Remove all oils, greases, dirt and wax solutions from surface.
4. Use suitable means to remove contaminants, heavy laitance or curing compounds which will interfere with proper adhesion.

FORMWORK

Formwork is required to contain the SOLHYDGROUT EPOXY HS. Any formwork must be constructed to avoid the inclusion of pre-saturation water and must be strong enough to prevent deflection. For maximum adhesion, it is recommended that the underside of the boards be sandblasted to a white metal to SSPC SP10.

PHYSICAL MATERIAL PROPERTIES @ 23°C (73°F)

	COMPONANT A RESIN	COMPONANT B HARDENER	MIXED A+B+C
Density (Mixed)	1.21	1.08	2,040 kg/m^3
Coulor	Grey	Clear	Grey
% solids	-	-	100 %
VOC			0

MIXING / RATIO	A	B	C
Volume	7 L	3.5 L	40 kg

CURE TIME @ 23ºC (73ºF), 50% RH	
Working time	1 hour
Static load cure time	18 to 24 hours

PHYSICAL TESTING	
Hardness Shore D (ASTM D-2240)	75 - 85
Linear shrinkage (ASTM C-531)	0.01 % maximum
Compressive strength (ASTM C579) at 3 days	79 MPa
Compressive strength (ASTM C579) at 28 days	90 MPa
Flexural strength (ASTM C 580)	27 MPa
Tensile strength (ASTM C 307)	15.6 MPa
Coefficient of Thermal Expansion (ASTM C-531)	10 x 10-6p/p/ºF
Water absorption (ASTM C 413)	< 0.15 %
Adhesion (ACI 503R-concrete)	2.3 MPa (100% concrete failure)

SOLHYDGROUT EPOXY HS

High-precision epoxy grout
providing uniform support, exact alignment, and vibration control for heavy loads.

PRODUCT MIXING

- Supplied as a three package system.
- Open component «A» and agitate resin until evenly blended.
- Open component «B» and pour entire contents into component «A» container.
- Agitate with low speed power mixer (200-300 rpm) until one even color develops.
- Pour A and B mixture into mortar mixer and slowly add component «C» (aggregate) into mortar mixer and continue mixing until a homogeneous mix is obtained.

PRODUCT APPLICATION

Where formwork is required, it must be firmly anchored and watertight.

PLACEMENT:

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

FINISHING:

The grout surface can be troweled.

CURING

SOLHYDGROUT EPOXY HS does not require any special cure.
The product becomes a vapor barrier after curing.

ESTIMATING / YIELD

SOLHYDGROUT EPOXY H.S. is package in a 28.3 L unit (1 cubic foot).

PRECAUTIONS / RESTRICTIONS

- During application and initial cure cycle, substrate and ambient temperatures must be at a minimum of 5ºC (41ºF). Substrate temperatures must be at least 3ºC (6ºF) above the dew point.
- MOISTURE SENSITIVITY.
- Mix only complete units.
- Best results are obtained on clean and dry surfaces.
- Do not mix an aggregate quantity that is less or more than the values indicated in the technical data sheet.

PACKAGING

SOLHYDGROUT EPOXY HS :

1x Part A: Resin 7L
1x Part B: Hardener 3.5 L
2x Part C: Aggregate 20 kg

CLEANING

Use a cleaning product containing XYLENE.

STORAGE

Store in heated dry area, on skids.

SAFETY

See Material Safety Data Sheet.