BASALITE®
Concrete Products, ULC

PILE GROUT

FOUNDATION GROUT

DESCRIPTION: PILE GROUT is an unsanded, Portland cement based, shrinkage compensating grout containing pozzolans and other carefully selected additives.

USES: PILE GROUT can be used for most grouted anchor requirements, including:

- Infill of pipe piles.
- Rock bolts or soil anchors in tunnel support systems.
- Bonded tendons in post tensioned structures.
- Cable bolting.
- Earth tie-backs for excavation or slope stabilization.
- Soil or rock tendons used for anchoring piles or foundation structures.

ADVANTAGES:

- SULPHATE RESISTANCE: PILE GROUT offers superior sulphate resistance to Type HS Cement.
- PUMPABILITY: PILE GROUT has a carefully balanced admixture package which enhances its pumpability, even through a narrow hose for long distances.
- VOLUME STABILITY: PILE GROUT is a shrinkage compensating grout.
- RESISTANCE TO WATER WASHOUT: PILE GROUT has excellent cohesive properties. It resists washout or dilution by water and thus can be used in wet ground conditions and still retain its excellent physical properties.
- RANGE OF CONSISTENCIES: PILE GROUT can have thixotropic properties at a w/c from .25 to .30 where it gels after placement or pumping. This gelling action prevents the loss of grout in porous or fractured geology.

PROCEDURES: Mix PILE GROUT with a high shear mixer.

CONSISTENCY	W/C	RECOMMENDED MAX.WATER/30 kg (66 lb.)
Flow = 20 - 30 sec.	0.35	10.4 litres (2.7 US gal)

Over-watering will result in reduced compressive strengths and inferior physical properties.

Introduce potable water into the high shear mixer, then add the PILE GROUT while operating at medium speed.

Mix at high speed for a minimum of five minutes. Mortar style mixers are not recommended for this purpose.

Decrease mixer speed to low and continue mixing while placing or pumping the grout. The grout's pot life is approximately one hour.

TECHNICAL DATA: The data outlined below is representative of typical values achievable under controlled laboratory conditions. Results obtained in the field may vary from those stated.

	Test Method	Flowable
W/C		0.35
Flow	CSA A 23.2-1B	20 - 30 sec.
Volume Stability @ 3 hrs.	CSA A 23.2-1B	0.1 to 0.25 %
Bleeding	CSA A 23.2-1B	Nil
Segregation		Nil
Air Content	CSA A 23.2-7C	0.5 %
Density - kg/m^3 (lb/ft^3)		1852 (116)
Yield - m^3/bag (ft^3/bag)		0.022 (0.77)
Chlorides	CSA A 23.2-4B	31 mg/kg of grout
Nitrates	ASTM D 4327	73 mg/kg pf grout
Compressive Strength MPa (psi)	CSA A 23.2-1B	
7- Day		40 (5800)
28 - Day		60 (8700)

LIMITATIONS: Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per sack will result in inferior physical properties.

PACKAGING: PILE GROUT is packaged in 30 kg (66 lb.) triple-lined paper bags. All Basalite Dry Mix can be custom packaged to meet specific project requirements.

SAFETY PRECAUTIONS: PILE GROUT contains Portland cement, pozzolans and other carefully selected additives. Normal safety wear such as rubber gloves, dust mask and safety glasses, used to handle conventional cement-based products, should be worn. Material Safety Data Sheets are available on request.

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