

DESCRIPTION: STEALTH GROUT is an unsanded cementitious penetrating grout. STEALTH GROUT has an extremely fine particle size, Blaine fineness 2050 m²/kg, and a uniform size distribution which enhances grout penetration and dispersion into soil or rock media. It is ideal for stabilizing soil or rock prior to excavation, and controlling water ingress in mines, tunnels, shafts or other underground openings.

USES:

1. Pre-grouting ahead of adit or shaft development to stabilize rock or soil mass prior to excavation.
2. Pumpable into rock fissures, cracks, faults and water bearing soils to control water ingress in mines, tunnels, shafts, adits, sewers and various open excavations.
3. Useful in any application where flowing water must be overcome.
4. Densify soil or rock masses to reduce air permeability.
5. Hazardous waste containment in land fills, mine tailings, and other similar applications.
6. Consolidation grouting.
7. Curtain grouting.

ADVANTAGES:

1. Extremely fine particle size allows grout to penetrate into soils and rock not penetrable by normal cementitious grouts.
2. Uniform particle distribution results in a homogeneous grout that exhibits negligible separation even at high water contents.
3. Evenly distributed particle size reduces bridging and plugging within the grouted mass thus yielding a higher quality grout and greater void reduction at lower pumping pressures.
4. Requires only the addition of potable water. It does not require the addition of caustic or difficult to handle admixtures.
5. When required, STEALTH GROUT can be ordered with a factory-blended, non-chloride accelerator to decrease set times and increase early strength gain.
6. STEALTH GROUT can be mixed to a wide range of consistencies and pumped using standard cementitious grouting equipment.
7. Excellent resistance to water washout when used at lower water/ cement ratios.

PROCEDURES:

1. Introduce potable water into a colloidal or high shear grout mixer, then add STEALTH GROUT. Mix at high speed until all particles are thoroughly wetted. Follow standard grouting procedures, keeping grout agitated until pumped. Mortar style mixers are not recommended for this purpose. The grout's pot life is approximately two hours.
2. STEALTH GROUT can be pumped at water / mix ratios as low as 0.45 with the standard piston, diaphragm, plunger or progressive cavity type cementitious grout pumps. A hose diameter of 25 mm (1 inch) or more is recommended although for short pumping distances and higher water / mix ratios, 19 mm (3/4 inch) hose has been successfully used.
3. STEALTH GROUT behaves similarly to other cementitious grouts in extreme temperature conditions. Standard cold or hot weather cementitious grouting procedures should be followed when using STEALTH GROUT in adverse temperature conditions.

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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.

	<u>Test Method</u>	<u>Water / Cement Ratio</u>			
		0.5	1.0	1.25	
Flow		125 - 150 %	15 - 20 sec.	9 - 13 sec.	
Yield - m ³ (ft ³)/ 23 kg bag		.02 (0.7)	.031 (1.1)	.037 (1.3)	
Density - kg/m ³ (pcf)		1747 (109)	1470 (92)	1397 (87)	
Bleeding	CSA A 23.2 - 1B (ASTM C 940)	Nil	Nil	Slight	
Set Time	ASTM C 266 Modified	Initial	4.0 hrs	18.0 hrs	20.0 hrs
		Final	8.0 hrs	26.0 hrs	30.0 hrs
Set Time-Accelerated mix (3% accelerator)	ASTM C 266 Modified	Initial	0.5 hrs	12.0 hrs	20.0 hrs
		Final	4.0 hrs	20.0 hrs	30.0 hrs
Compressive Strength:	ASTM C 109				
Standard Mix:		MPa (psi)	MPa (psi)	MPa (psi)	
7 Day		27 (3916)	2 (290)	0.5 (73)	
28 Day		39 (5657)	7 (1015)	4 (580)	
Accelerated Mix:					
7 Day		26 (3771)	2.6 (377)	0.7 (102)	
28 Day		38 (5512)	5 (725)	3.4 (493)	

LIMITATIONS: Mixing water content and installation procedures can vary depending on the grouting application. Contact Basalite's Technical Staff for additional information. Liability for damages or defective goods shall be limited to the refund of the purchase price or product replacement.

PACKAGING: STEALTH GROUT is packaged in 23 kg (50 lb.) triple-lined paper bags.

All Basalite Dry Mix can be custom packaged to meet specific project requirements.

SAFETY PRECAUTIONS: STEALTH GROUT is a cementitious product with carefully selected additives. Normal safety wear such as rubber gloves, dust masks and safety glasses, used to handle conventional cement based products, should be worn. Material Safety Data Sheets are available upon request.

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