

DESCRIPTION: NON SHRINK GROUT-FAST SET is a sanded, cement-based, expanding grout produced to achieve fast set times and high, early strength. This product is designed for use as a plastic or flowable grout. It will exhibit slight expansion prior to initial set in normal working temperatures. NON SHRINK GROUT-FAST SET meets the requirements of ASTM C 1107 classification “B” for post set dimensional stability and the ASTM C 928 requirements for length change stability.

USES: NON SHRINK GROUT-FAST SET may be used in many grouting applications such as:

1. Grouting under baseplates, columns and equipment not subjected to heavy impact or vibratory loads.
2. Grout jacking of concrete slabs.
3. Grouting of prestressed or post-tensioned tendons, anchor bolts or cables.
4. Underpinning of structures.
5. Grouting holes or cracks in concrete
6. Void backfilling in tunnels.
7. Grouting of post-tensioned structural sections.

ADVANTAGES:

1. Quick setting.
2. High early strength gain.
3. Non-bleeding /non-segregating.
4. Non-corrosive/non-chloride/non-metallic.
5. Shrinkage compensating.
6. Usable over a wide range of consistencies from dry pack to flowable.

PROCEDURES:

1. **SURFACE PREPARATION:** All surfaces to be in contact with NON SHRINK GROUT-FAST SET must be entirely free of oil, grease, laitance or other foreign substances. Roughen exposed surfaces and clean thoroughly with potable water, leaving the concrete saturated but free of standing water.

2. **MIXING:** NON SHRINK GROUT-FAST SET should be thoroughly mixed to the desired consistency by varying the amount of water used. For plastic or flowable consistencies, the grout is best mixed in a high speed shear mixer. A high RPM drill with a double propeller is ideal.

CONSISTENCY	RECOMMENDED MAX. MIXING WATER/25 kg (55 lb)
-------------	---

Plastic	3.4 litres (0.9 US gallon)
---------	----------------------------

Flowable	5.2 litres (1.4 US gallon)
----------	----------------------------

3. **PLACING:** Place NON SHRINK GROUT-FAST SET at the desired consistency using established grouting procedures.
4. **CURING:** Once NON SHRINK GROUT-FAST SET has set, moist curing for at least one day is recommended.
5. **MIXING:** Mix only the amount of material that can be placed in fifteen minutes.

NON SHRINK GROUT – FAST SET

PAGE 2

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>Plastic</u>	<u>Flowable</u>
Flow	CSA A 23.2-1B	50 - 75 %	25 - 35 sec.
Plastic Expansion	CSA A 23.2-1B	0 - 1 %	0 - 1 %
Hardened Expansion	ASTM C 1107	N/A	+0.017 %
Bleeding	CSA A 23.2-1B	Nil	Nil
Segregation	CSA A 23.2-1B	Nil	Nil
Length change:	ASTM C 928		
Water bath		N/A	+0.024 %
Air dry storage		N/A	-0.076 %
Compressive Strength	ASTM C 1107		
MPa (psi)			
2 - Hour		15 (2175)	7 (1015)
4 - Hour		20 (2900)	10 (1450)
1 - Day		30 (4350)	15 (2175)
7 - Day		50 (7250)	35 (5075)
28 - Day		65 (9425)	50 (7250)
Set Time	ASTM C 266		
Initial -		20 minutes	30 minutes
Final -		35 minutes	60 minutes
Density: kg/m ³ (lb./ft ³)		2210 (138)	2049 (128)
Yield: m ³ /bag (ft ³ /bag)		.013 (.45)	.015 (.52)

LIMITATIONS:

- Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per sack will result in inferior physical properties.
- The grout should not be used where it will be subjected to severe repetitive dynamic or cyclic loadings or vibrations.
- The grout performs best when fully restrained or confined on all surfaces.
- The ideal temperature for grouting is between 5 - 24 ° C (41 - 75 ° F). Grouting in cooler temperatures will retard set and strength gain. Warmer temperatures will accelerate set and strength gain.
- For pours exceeding 50 mm (2 inch) thickness and .28 m² (3 ft²) in area, add 12.5 kg (28 lb.) of clean washed well graded 10 mm (3/8 inch) minus stone to each 25 kg (55 lb.) sack of NON SHRINK GROUT-FAST SET to achieve adequate results.

Liability for damages or defective goods shall be limited to the refund of the purchase price or product replacement.

PACKAGING:

NON SHRINK GROUT-FAST SET is packaged in 25 kg (55 lb.) triple-lined paper bags. All Basalite Dry Mix can be custom packaged to suit specific project requirements.

SAFETY PRECAUTIONS:

NON SHRINK GROUT-FAST SET contains hydraulic cement 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 upon request.

01/07