BLOCK FILL

25MPa MASONRY GROUT

DESCRIPTION: BLOCKFILL is a pre-blended masonry grout formulated with fine and coarse aggregates combined with Portland cement. It is available in 36kg (80lb) bags and 1cubic yard (0.76m^3) bulk bags. The standard mix provides a compressive strength of 25MPa, with custom strengths available to meet specific project requirements. Designed for grouting masonry walls, BLOCKFILL requires only the addition of water and is engineered for superior flow and consistency. Blockfill grout meets the compressive strength requirements of CSA A179 - *Mortar and Grout for Unit Masonry* and ASTM C476 -*Standard Specification for Grout for Masonry*.

USES: BLOCKFILL is specifically formulated for applications where site access or logistics make ready-mix delivery impractical, such as under-ground parking structures, high-rise buildings, and other confined or difficult-to-reach areas. It is also ideal for smaller-scale projects and for the construction or repair of foundations, floors, retaining walls, and sidewalks requiring a high-quality, pre-blended grout.

ADVANTAGES: BLOCKFILL is a quick and efficient method of supplying large quantities of grout to any commercial project.
Other advantages include:

- no site pre-blending required (water is the only additive)
- quality controlled
- consistent performance
- increased productivity
- no admixtures required

MIXING: For optimal results, mix the Blockfill grout using a clean concrete mixer and potable water only. Begin by adding approximately 75% of the required water to the mixer. Add the contents of the Blockfill bag and start mixing. Gradually add the remaining water in small increments until the desired slump is reached. Mix thoroughly for 5 to 8 minutes to achieve a uniform, workable consistency. The maximum recommended water per 36kg (80lb) bag is 4.2 liters for coarse Blockfill and 5.0 liters for fine Blockfill.

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.

	BLOCKFILL (Coarse)	BLOCKFILL (Fine)
Slump (mm)	200-275	200-275
Set time : Initial/Final	4 hrs./ 8 hrs.	4 hrs./ 8 hrs.
Density: Kg/m^3	> 2200	> 2150
Compressive Strength (28 days)	25 MPa	25 MPa
Yield (36kg bag)	0.018m^3 (0.024yd^3)	0.018m^3 (0.024yd^3)
(bulk bag)	0.76m^3 (1.0 yd^3)	0.76m^3 (1.0 yd^3)

Approximate number of CMU blocks filled		
Size of Blocks	CMU Blocks	
	36kg Bag	1550 kg (Bulk Bag)
15cm	3 - 4	135 - 150
20cm	2 - 3	95 - 108
25cm	2 - 2.5	72 - 82
30cm	1 - 2	58 - 66

LIMITATIONS:
Exceeding the maximum water content per bag may significantly reduce the grout's physical properties and overall performance. Installation of BLOCKFILL must comply with all applicable local building codes and relevant CSA and ASTM standards.

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

Standard test method of sampling and testing grout:
When masonry grout compressive strength testing is required, the procedures given in ASTM C1019 - Standard Test Method for Sampling and Testing Grout shall be followed. In this method, grout samples are cast in prism molds prepared from concrete masonry units to ensure the mold's absorption characteristics closely match those of the masonry wall.
As per CSA A179 and CSA S304, grout samples cast in non-absorptive plastic cylinder molds produce unreliable and generally lower compressive strength results, as such molds fail to reproduce the moisture absorption behavior of masonry units.

Note: ASTM C1019, CMHA (NCMA) TEK18-08B, and the Masonry Institute of British Columbia (MIBC) guidelines all prescribe the same method for evaluating masonry grout.

PACKAGING:
BLOCKFILL is packaged in 36kg (80 lb.) sacks and in 1cubic yard (0.76m^3) bulk bags. All Basalite Dry Mix can be custom packaged to meet specific requirements.

SAFETY PRECAUTIONS:
BLOCKFILL grout contains Portland cement and other carefully selected additives. Standard safety wear such as rubber gloves, dust mask and safety glasses, used to handle conventional cement-based products, should be worn. For more detailed safety information, refer to the Safety Data Sheets available at www.basalite.ca.

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