

1121 GROUT (CABLE DUCT GROUT)

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PRODUCT

TARGET® Cable Duct Grout is a premium quality, high flow, unsanded, cementitious grout. TARGET Cable Duct Grout is specially formulated for the grouting of stressed cables, bars and anchorages. TARGET Cable Duct Grout does not depend upon the formation of hydrogen, carbon monoxide, air or the use of gypsum for pre-hardened and post hardened expansion.

USES

TARGET Cable Duct Grout is specially designed for uses where high fluidity, extended working time, no bleeding, segregation or plastic settlement shrinkage, high strength and resistance to chloride penetration are required.

Applications include:

- Grouting of post tensioning cables or bars where complete encapsulation of the reinforcing and protection from corrosion are required.
- Pumping grout through small opening over long distances.
- Grouting cable anchorages for highly stressed reinforcing steel.

PROCEDURES

1. The grout is best mixed in a high-speed shear mixer such as a Jiffler mixer or equivalent.
2. Add the grout to clean, potable water and mix until a uniform consistency is achieved. Target mixing temperature to be 50 F - 74 F. If mixing temperatures are higher or lower than target, then employ hot weather / cold weather precautions as needed. Consult your TARGET® representative for hot weather and cold weather grouting.
3. The grout can be mixed to plastic, flowable or fluid consistencies, depending on the job application. The water content of the grout should be kept as low as possible, and not exceed 5.75 litres (1.52 US gallons) of water per 25 kg (55 lb) bag of TARGET Cable Duct Grout.
4. Mix the grout continuously for at least 5 minutes before placing. If possible, the grout should be mixed continuously until placing is completed, but if this is not practical, re-mix the grout prior to pumping or placement for a minimum of 30 seconds to overcome the "Thixotropic" nature of the grout.
5. Place, using a grout pump or other established grouting procedures. The placement method will depend on the application and grout consistency.
6. In order to obtain full expansion of the grout in place, limit batch sizes to the amount of grout placement that can be completed within 1 hour.

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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TYPICAL PROPERTIES OF TARGET Cable Duct Grout at fluid consistency

Physical Property	Test Method	Result	Typical Specification
Water: Cementitious Ratio		0.23	0.23 Max.
Fluidity, sec after 30 minutes	ASTM C939 (modified to PTI Clause 4.4.5.2)	<15 - 30 < 30	5 to 30 < 30
Pre-hardened expansion, % at 3 hours	ASTM C940	0.9	0 to 2.0
Bleeding, % at 3 hours	ASTM C940	0.0	0.0
Wick Induced Bleeding, % at 3 hours	ASTM C940 (modified to PTI Clause 4.4.6.1)	0.0	0.0
Gellman Pressure Induced Bleeding, % bleed at 100 psi pressure for 10 minutes	PTI Clause 4.4.6.2	0.0	< 0 @ 50 psi for 5 min.
Setting Time, hr:min Final Set	ASTM C953	< 12.0	3 to 12 hr
Volume Change, % at 24 hours at 28 days	ASTM C1090	>0.0 <0.2	>0.0 <0.2
Compressive Strength, MPa (psi) at 24 hours at 3 days at 7 days at 28 days	ASTM C942	17.4 (2,525) 30.5 (4,430) 55.8 (8,100) 84.1 (12,205)	>15 (2,175) >25 (3,630) >50 (7,260) >80 (11,610)
Rapid Chloride Permeability Test	ASTM C1202 (modified to PTI Clause 4.4.3)	282 coulombs @ 28 days	ASTM Rating 100-1000 (very low)
Chlorides (Water Soluble)	ASTM C114-19	0.01%	ACI Recommend: For Pre-stressed concrete; < 0.06%

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APPROXIMATE YIELD

per 25 kg (55 lb) bag at fluid consistency

bags/m ³	63
bags/yd ³	48
litres/bag	15.8
ft ³ /bag	0.56

CAUTION

- The grout performs best when fully restrained or confined on all surfaces.
- Pours with least dimensions (thickness) in excess of 50mm (2 inches) are not recommended.
- Ambient temperatures should be between 10° C (50° F) and 30° C (86° F). Cooler temperatures will retard the rate of strength gain.

SPECIFICATION GUIDE

Grout shall be TARGET Cable Duct Grout or approved equivalent product meeting the requirements of US Corps of Engineers Specification CRD-C621, ASTM Standard Specification C1107 for Non-Shrink Grout and Post Tensioning Institute "Specification for Grouting of Post-Tensioned Structures".

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