

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. It is designed to exceed the stringent requirements of PTI M55. 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. Ambient and mix temperatures should ideally be between 5 °C (41 °F) and 32 °C (90 °F). Cooler temperatures will retard the rate of strength gain and warmer temperatures will affect the fluidity characteristics of the grout. If temperatures are higher or lower than this ideal range, refer to the PTI Guide Specification for Grouting of Post-Tensioned Structures or confer with your TARGET® Representative for hot weather and cold weather precautions and procedures.
3. The grout can be mixed to 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 at the recommended temperature range of 5 °C (41 °F) and 32 °C (90 °F).

NOTICE: Obtain the applicable **LIMITED WARRANTY** at www.targetproducts.com/product-warranty
Or send a written request to Target Products Ltd., Five Concourse Parkway, Atlanta, GA 30328, USA.

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TYPICAL PROPERTIES OF TARGET Cable Duct Grout

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 4.4.7)	<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%
Chloride (Acid Soluble)	ASTM C1152	0.006%	ACI Recommend: For Pre-stressed concrete; < 0.08%
Incline Tube Test E.N. 445 modified per PTI 4.4.9	Sample immediately after Mixing and again at 30 min after mixing.	Percent Bleeding 0.0%	0.0%

*Utilizing a high shear Colloidal Mixer anticipated efflux times will be between 6 to 15 Seconds using the Manufacturer's recommended water dosage.

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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 50 mm (2 inches) are not recommended.
- Ambient temperatures should be ideally between 5 °C (41 °F) and 32 °C (90 °F). Cooler temperatures will retard the rate of strength gain and temperatures above 32 °C will affect the fluidity characteristics of the grout. If temperatures are higher or lower than this ideal range, refer to the PTI Guide Specification for Grouting of Post-Tensioned Structures or confer with your TARGET® Representative for hot weather and cold weather precautions and procedures.

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*”.

PACKAGING

TARGET 1121 Cable Duct Grout is available in 25 kg (55 lb) bag 42 bags /pallet.

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