

CEMENTITIOUS HIGH STRENGTH WIND TURBINE GROUT

ITEM NUMBER CC WTG GROUT

DESCRIPTION

CC WTG GROUT is a hydraulic-cement based, precision, non-shrink, load-bearing grout having an extended working time up to 30 minutes under fluid condition. CC WTG GROUT is designed to transfer load effectively and safely, ensuring long service time of the grouted item. It is a non-corrosive, non-metallic, mineral-based precision grout, developed to have a high initial and ultimate flexural and compressive strength. It can be mixed quickly, as needed, on the jobsite. CC WTG GROUT offers exceptional workability and is easily placed by pouring or pumping. The product is designed to give non-shrink performance under various conditions for both interior and exterior applications.

INDUSTRY USES

- Machinery and equipment base plates / wind turbines / generators / rolling mills / compressors
- Soleplates / bridge seats / precast columns
- Beams / steel column pads / precast beams
- Anchoring guardrails / sign posts / anchor bolts / guide wires / dowels

BENEFITS AND FEATURES

- May be mixed to plastic, flowable, and fluid consistencies for easy application.
- Very high compressive and flexural strengths
- High modulus to ensure proper load transfer
- Non-shrink ensures proper load transfer
- Quickly and easily placed by pouring or pumping
- Resists heat up to 600°F (315°C)
- Resists many chemicals, including oils, petroleum products, solvents and mild caustic alkalis
- May be extended up to 50%
- No added chloride or gypsum
- Outstanding flow characteristics; maintains flow for up to 30 minutes at fluid consistency.

TECHNICAL DATA

C191 Set Time		Plastic	Fluid
	Initial Set	15 minutes	57 minutes
	Final Set	28 minutes	80 minutes
C109 Compressive Strength		Plastic	Fluid
	1 day	8,800 psi (MPa 60.7)	7,200 psi (MPa 49.6)
	7 days	10,900psi (MPa 75.1)	8,200 psi (MPa 56.5)
	28 days	12,300 psi (MPa 84.8)	10,700 psi (MPa 73.8)

PACKAGING

50lb Bag

Yield – approx. 0.44 ft³/bag at high flow

Shelf Life: 12 months properly stored

Storage Conditions: Store in unopened container in a dry and cool area

SURFACE PREPARATION

All grout contact surfaces must be free of oil, grease, scale, penetrating sealers or all other types of contaminants that will interfere with the bond. Mechanically roughen or high pressure water-jet the existing concrete substrate. Surface must be rough in profile, but generally level. Grouting area must be saturated with water 12-24 hours prior to grouting. Remove all excess water before placing grout.

Form preparation: Forming method must provide for rapid, continuous grout placement. For pouring, allow a minimum clearance of 3" for entry and 6" minimum grout "head". Forming must also provide venting to avoid entrapment of air. Provide ½" minimum form clearance on all sides and 1" clearance for head. Ensure form is well sealed and an appropriate form release agent has been applied for that type of form.



CCWTG Grout

MIXING

Small quantities of CC WTG GROUT may be hand-mixed in a concrete mixing pan until lump-free. For large quantities and continuous pours, mix using a mortar mixer with rubber tipped blades or appropriate grout pump for a minimum of 3 minutes or until lump-free and uniform consistency. Use the minimum water required to produce desired placement consistency.

- Use 3.8 quarts (3.7L) of water per bag for plastic consistency
- Use 4.0 quarts (3.875L) of water for medium flow (pourable)
- Use 4.3 quarts (4.0L) of water for high flow

Mix in 2 steps

1. Add 2/3 of water requirement then add grout
2. After partial mixing, add remainder of water for desired consistency. Thoroughly mix total quantity for 2-3 minutes.

Do not mix more than can be placed in 15 minutes at 75° F (24° C). Do not re-temper.

PLACEMENT

CC WTG GROUT is easily placed by pouring or pumping and compaction can be accomplished by rodding or tapping. Place grout on one side, flowing to opposite and adjacent side, to avoid entrapment of air. When necessary provide vent holes. Grout head and excess grout may be removed after initial set.

CAUTION

Safety Considerations

- Use of safety goggles and chemical resistant gloves are recommended
- Use of NIOSH/MSHA/OSHA approved respirator is recommended if ventilation is inadequate
- Avoid breathing vapors
- Avoid skin contact

First Aid

- **EYE CONTACT:** Flush immediately with water for at least 15 minutes. Contact physician immediately.
- **RESPIRATORY CONTACT:** Remove person to fresh air.
- **SKIN CONTACT:** Remove any contaminated clothing.

KEEP CONTAINER TIGHTLY CLOSED – KEEP OUT OF REACH OF CHILDREN – NOT FOR INTERNAL CONSUMPTION – FOR INDUSTRIAL USE ONLY

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CCWTG Grout

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