

A PREMIXED CEMENTITIOUS CABLE GROUT

DESCRIPTION

A ready to use high strength premixed flowing non shrink cable grout. Expansion/no shrinkage ensures good interfacial contact is maintained. **Congrout AF** complies to BS EN 447.

USES & ADVANTAGES

Use for the grouting of prestressed cable ducts, bearing plates, tunnel linings, rock & soil anchoring etc.

Advantages include:-

- Flows with low water cement ratio.
- Reduced bleeding.
- Ready to use.
- Non shrink.
- Good expansion.
- Good strength & adhesion.
- Prolonged workability.
- Both non hydrogen & hydrogen forming available.

PROPERTIES

Appearance: Grey powder

Density of Freshly: Approx 2 kg/l

Mixed Grout

Shrinkage: Nil

Chloride Content %: Nil

Typical Strengths:

	Flexural Strength ASTM C348	Compressive Strength ASTM C109
24 hours	2 N/mm ²	≥23 N/mm ²
3 days	4 N/mm ²	≥40 N/mm ²
7 days	5 N/mm ²	≥45 N/mm ²
28 days	6 N/mm ²	≥60 N/mm ²

Flow: Flowing at water cement ratio of 0.35-0.40 J-rote <3 seconds over 2 hours ASTM marsh cone 18 seconds over 2 hours at 0.4 w/c.

Flow is effected by temperature and water contents.

Expansion: According to ASTM C-827 an unrestrained expansion of 1-4% is typical. Expansion is effected by temperature and water contents.

Note : In the non hydrogen forming material expansion is negligible.

Bleeding: Typically Less than 2% at 3 hours and reabsorption within 24 hours according to ASTM C232.

Workability: 90-120 minutes depending on temperature

Retention & W/C.

Curing: Cure cubes in plastic bags not water.

Shrinkage: None

SURFACE PREPARATION

Surfaces should be clean, sound and free from oil, grease, laitance and loose particles. Metal surfaces should also be clean & free from rust, oil & grease.

MIXING & APPLICATION

Mixing times and w/c vary according to the application. With standard mechanical mixing for prestressed concrete work, a mixing time of 4 minutes with a w/c of 0.35-0.40 gives the best results.

The best mixing sequence is normally water : **Congrout AF**. Ensure the substrate is correctly prepared. During application ensure trapped air and air entrained into the grout is able to escape through relief holes. Maintain continuous head when grouting. Mortar flow should not be interrupted.

IMPORTANT NOTES

Congrout AF is generally used in the highly specialised work of grouting and prestressing. Properties of **Congrout AF** may be influenced by mixing procedure, adding of water and temperatures. Therefore tests on site should be undertaken.

CLEANING

Clean all tools with water immediately after use.

PACKAGING

20 kg. 3 ply plastic lined bags.

STORAGE CONDITIONS & SHELF LIFE

Store in dry shaded conditions. The shelf life is 6-9 months if kept dry in original packaging. High temperatures and humidity may reduce shelf life.

HEALTH & SAFETY

Congrout AF is alkaline avoid contact with skin & eyes. Gloves, goggles and dust mask should be worn. Skin should be washed with water to remove & splashes in the eyes washed out with copious amounts of clean water and medical attention sought. **Congrout AF** is non-flammable.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

CONTACT DETAILS

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