Congrout ® 1000

HIGH PERFORMANCE NON SHRINK PRECISION GROUT

DESCRIPTION

Congrout 1000 is a fine precision non shrink, high performance grout with extended working time. **Congrout 1000** complies to ASTM C1107, Type C.

USES & ADVANTAGES

Congrout 1000 uses for the installation of anchor bolts, heavy machinery base-plates, column sole plates, bridge bearings and all areas requiring precision grouting.

Advantages include:-

- Repair work and cavity filling.
- Flowable and self levelling.
- Able to fill intricate voids.
- Ready to use.
- High strength.
- Good dimensional stability.
- No bleeding or segregation.
- Good expansion.
- Compensates for shrinkage in both plastic and hardened state.

PROPERTIES

Appearance: Grey powder
Bulk Density: Approx. 1.56-1.60 kg/litre
Pot life @ 25^{0}C : 5 - 10 minutes
Yield: Approx. 75 x 25 kg/bags/m^3 of grout depending on water content

Expansion of up to 1% or greater in unset material according to ASTM C940.

Drying shrinkage is compensated for complying with the requirements of ASTM C1107 Type C.

Application Temperature: +5ºC - 40 ºC
Service Temperature: -20ºC - 100 ºC

APPROXIMATE FLOW DISTANCES AT 23ºC

		Approx. Flow distance in cm.	
Grout Water cement	Gap Depth mm.	Head Height 10 cm.	Head Height 25 cm.
15% by weight of grout	10	100 cm.	270 cm.
	20	200 cm.	>310 cm.
	30	>300 cm.	>310 cm.
	40	>300 cm.	>310 cm.

Flow distance will be affected by surface conditions, temperature, height of head and mixing time.

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

Congrout 1000 should be mixed using a suitable mixer. For flowable consistency use a slow speed <400 R.P.M. hand drill and paddle. For large works use a high shear vane grout mixer. Drum mixers may not mix sufficiently.

Powder should be added to the pregauged clean water. For J rote of < 14 seconds approx.15% of water by weight of **Congrout 1000** should be used.

Do not add more than the maximum water content. Mix for up to 5 minutes.

APPLICATION

Ensure the substrate is correctly prepared. No contamination and saturated with water at least 3 - 4 hours prior to pouring the grout. No free water should be left. During application ensure air entrained into the grout is able to escape through relief holes. Maintain continuous head when base-plate grouting. Mortar flow should not be interrupted. Formwork should not allow grout loss.

Ensure there is no water standing in bolt holes. If possible grout anchor bolts first then the mortar bed in a second operation. The distance between anchor bolt and substrate should be at least 3 x max. diameter of mortar aggregates approx. 10 mm. A cable or chain may be used to make sure that all cavities are filled.

IMPORTANT NOTES

Use **Congrout 1000** with minimum gaps of 5 mm. and maximum depths of 150 mm. Temperature will affect setting time and strength gain. Normal curing practice should be maintained.

CURING

To prevent rapid surface drying and crazing, use a suitable curing compound from Cormix's Corcure range **Corcure 90**.

CLEANING

Clean all tools with water immediately after use.

PACKAGING

4 Ply plastic lined bags.
25 kg (13.34 litres) & 20 kg (10.67 litres)

STORAGE & SHELF LIFE

Store in dry shaded conditions. The shelf life is at least 12 months if kept dry in original packaging. High temperatures and humidity may reduce shelf life.

HEALTH & SAFETY

Congrout 1000 is alkaline avoid contact with skin & eyes. Gloves, goggles and dust mask should be worn. Remove from skin with soapy water. Splashes in the eyes should be washed out with copious amounts of clean water and medical attention sought.

Congrout 1000 is non-flammable.

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TYPICAL CHARACTERISTICS AT 25°C UNDER LABORATORY CONDITIONS

Water Content (%)	Consistency (J rote)	Setting time@25°C (minutes) ASTM C191/ ASTM C807		Bleeding ASTM C940	Average Compressive Strengths (N/mm^2) - ASTM C109		
		Initial	Final		1 day	7 days	28 days
15	< 14 seconds	240-270	290-320	0	≥ 35	≥ 60	≥ 70

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.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.

Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advice offered.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.
ISO 14001 : 2015 verified by Lloyd's Register International.

CONTACT DETAILS

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