

GRT 20

Cement Based Grouting Mortar

Description

GRT 20 is a cement based, single component, flowable, ready to use grout mortar that expands to sufficiently counteract the plastic shrinkage normally associated with cement grouts.

Fields of Application

- Anchoring the machine feet,
- Rail beds,
- Columns in pre-cast construction,
- Concrete anchors,
- For pile cap reprofiling and encapsulation
- To fill in cavities, gaps and recesses,
- Bearing plates.

Features and Benefits

- Single-component and ready to use product, mixed with only water.
- Adjustable viscosity, applicable easily by pouring into mould.
- Has high strength.
- Has good flow characteristics.
- Resistant to impact.
- Protects to steel against corrosion.
- Prevents shrinkage after curing.

Technical Data

Content	Aggregate, cement and special additives
Color	Grey
Appearance	Powder
Density	2,25±0,1 kg/cm ³ (fresh concrete)
Particle Size	D _{max} : 3 mm
Mixing Ratio	25 kg GRT 20 : 3-3,5 L water
Compressive Strength	20-40 N/mm ² (1 day) 60-90 N/mm ² (28 days)

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Flexural Strength	>9 N/mm ² (28 days)
Application Temperature	+5°C to 30°C
Pot Life	40 minutes
HS Code	3214.10.90.00.00

Application Procedure

Preparation of Substrate

Application surface must be sound, clean and clean off materials which prevent bonding, such as dust, oil, rust and remove loose pieces. Concrete surfaces must be saturated with water before application. Immediately before pouring remove all excess or standing water from within any formwork.

Application Method

25 kg bag **GRT 20** is poured slowly into 3 - 3,5 liters of clean water under low speed mixer for 3-4 minutes until obtaining homogenous mixture. Mixing water must be clean and free of salt and lime. Mixture should be applied within 40 minutes at 20°C. **GRT 20** is only applied for filling applications as 10-30 mm thickness for each layer. If required more thickness surface, aggregate can be added to grout. In case of adding extra aggregate to the grout, due to the reduction of cement percentage, performance can be reduced approximately 20-40 %. During the application surface and ambient temperatures should be between +5°C to +30°C. It is not recommended to apply on windy, rainy and frost days.

Consumption

For 1 liter fresh mortar, approximately 2,0 kg powder product needed. Recommended application thickness is min. 10 mm / max. 30 mm.

Packaging

25 kg kraft bag

Shelf Life

12 months in original, unopened package.

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Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- Prepared material must be used within 40 minutes at +20°C.
- Fine grade aggregate can be added to system, if needed more thickness surface. Amount of aggregate must not exceed half of GRT 20 amount. Bear in mind that aggregate addition reduces cement performance
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +30°C.

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations. Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.