

ROCK GROUT HF

CEMENT-BASE FLUID EXPANDING MORTAR, WITH HIGH MECHANICAL

DESCRIPTION

One component cement base mortar with high mechanical resistance. It is supplied ready to use, only by adding water.

USES

Rock Grout HF is indicated for all of uses that need high initial or final high mechanical resistances:

- Bearing plates, machine foundations and anchors.

Metallic elements (reinforcements, etc.), concrete posts and pre-cast construction columns.

- Cavities, gaps and recesses into the concrete mass filling.

Note: Do not use for surfaces levelling.

CHARACTERISTICS / ADVANTAGES

Rock Grout HF has the following properties:

- Easy mixing and placing in cast.

Good flow characteristics and pourable with Self-levelling.

- Free from chlorides and metallic particles. It does not oxidize in contact with humidity, it protects metallic parts against corrosion, due to its basic PH Slightly expanding.

High mechanical resistances and quick resistances development.

- Excellent concrete, mortar or steel adhesion. It provides a monolithic joining and impact and vibration resistance.

- Waterproofing: water and oils resistant.

- It is neither toxic, nor corrosive.

APPROVALS / STANDARDS

- ASTM C-1107 for 2 stage expansion Grout Grades B+C.

PRODUCT INFORMATION

Chemical base Cement, selected fillers and aggregates, special additives

Packaging 25 kg bags

Appearance / Colour Grey powder

Shelf life 12 months from its manufacturing date, in their original packaging.

Storage conditions Store at a dry and fresh place.

Density Approx. 2.3 kg/l of the fresh mortar

Granulometry 0-3 mm

TECHNICAL INFORMATION

Compressive Strength 28 days ~80 MPa

Tensile Strength in Flexure Compression: 80 N/mm² (ASTM C-1107)

Flexural-tensile: 10 N/mm²

Table of resistance at different times and consistencies:

Resistances	Values in N/mm ²	
	24 h	28 days
Compression	40	70-80
Flexural –Tensile	6.0	8.0

Expansion Maximum 0.3%

Reaction to Fire Euro Class A1 (EN 1504-6)

Water Absorption Mixing Water

12-13% by weight of mortar

APPLICATION INFORMATION

Consumption 2.3 kg of the fresh mix by m² and mm of thickness.

Yield 1 bag yields approximately 12.3 litres of mortar

Layer Thickness minimum 10 mm/ maximum 50 mm

Ambient Air Temperature +5°C min. / +30°C max

Substrate Temperature +5°C min. / +30°C max

APPLICATION INSTRUCTIONS

Surface Preparation

1. Concrete substrates should be clean, sound and free from grease. Oils, cement laitance and all loosely adhering particles.

2. Metallic elements should be clean and free from oils, grease, and rust. Substrates cleaning, if necessary, should be preferably done by mechanical ways.

3. Absorbent substrates should be saturated, avoiding pooling. Rock Grout HF will be applied when surfaces begin to have a mate aspect.

MIXING

Rock Grout HF can be mixed with a low speed (<500 rpm) hand drill mixer to avoid entraining too much air. Mix only full bags for best results.

Pour the minimum recommended water in a suitable mixing container. While stirring slowly, add the powder to the water and mix thoroughly at least for 3 minutes adding additional water if necessary to the maximum specified amount to adjust the grout to the required consistency.

APPLICATION

Pour Rock Grout HF immediately after mixing it in order to take profit from its expanding effect. For bearing plates, it is necessary to have a mortar entrance hole and air evacuation hole. It is recommended to stir mechanically the mix in order to facilitate the filling process.

CURING TREATMENT

Keep visible exposed grout surfaces to a minimum. Protect the fresh material from premature drying using appropriate curing method e.g. curing compound, moist textile membrane, polythene sheet etc.

CLEANING OF TOOLS

Tools should be cleaned with water, immediately after its use.

LIMITATIONS

- Rock Grout HF is not indicated for surfaces leveling.
 - Due to its expanding effect, avoid free surfaces.
 - It is recommended to apply Rock Grout HF immediately after it's mixing in order to take profit from its expanding characteristics. If possible, do not wait more than 10 minutes after mixing it.
 - If used for filling, the minimum opening size should be 10 mm.
- The minimum substrate, room, and mix temperature during its application should be + 5° C
- In case of contact with the skin wash with water.
 - For any explanation, please contact our Technical Department.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY**Ecology**

Do not dispose of into water or soil but according to local rules and regulations.

•Transport

- Non-hazardous.

Safety Precautions

- Wear gloves, coveralls and goggles during handling.

Rock Grout HF contains cements of high alkalinity which could affect people with sensitive skin. Always wash your hands with soap and water after use.

Toxicity

- Non-Toxic when fully cured.



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CONSTRUCTION