eile GROUT 50 C

CE

Cement Based Grout Mortar

Description
It's a cement based, polymer-reinforced, high-flowability, non-shrink, high-strength, self-levelling grout mortar.

EN 1504-3 CE Certificate.

Areas of Usage
*****Mounting details of prefabricated concrete structures
*Filling the gap between the base and the mounting plate of turbines in power plants, pumps, compressors, generators, industrial machinery, and steel columns.
*It is used for the manufacturing of the load-bearing points of curtain wall and column systems.

Features of Product
***** It is mixed only with water, poured into the mould, and easily applied.
*****It has high compressive strength.
* It does not shrink or crack.
*It has fluid characteristics.
*Provides strong adhesion to concrete and reinforcement.
*It has high impermeability.
*Resistant to freeze-thaw cycles.

Application Procedure

Machine and Basement Preparation

Before placing the machinery, loose and damaged areas on the concrete should be cleaned, and the surfaces where the grout mortar will be applied should be roughened. Any foreign substances such as oil or dust that could affect the performance of the grout mortar on the application surface should be removed.

Air relief holes must be drilled on the base plate. The machine should be placed, levelled, and its position adjusted. This position should not be changed at all. If adjustment wedges need to be removed, they should be lightly greased to prevent the grout mortar from sticking.

After placing the machine and making the adjustments, base concrete should be saturated with water at least 6 hours before pouring the grout mortar.

Preparation of Mould
The moulds should be made of strong material that will not leak or absorb water, and they should be assembled to withstand the resistance they will encounter. There should be a 5 cm pouring gap between the edge of the base plate where the grout mortar will be poured and the mould.

To ensure proper spreading of the grout mortar, the height of the mould on the pouring side should also be considered.

Mixing
The recommended amount of water is poured into a clean mixing bucket. **eile Grout 50 C** is then slowly added to the mixing bucket. It is mixed with a low-speed mixer for approximately 3-4 minutes until a homogeneous mixture is obtained. After resting the material for 4-5 minutes, it is mixed again for 30 seconds and is ready for use.

Mixture Ratios
For 25 kg sack: 3,5-4 l water
For 1 kg powder: 0,140-0,160 l water
Mixture density: 1,9-2,1 gr/ cm^3

Application Method
If there are different machines operating around the machine of which base filling is done, it should be determined to what extent their vibrations are transmitted. If necessary, operating machines should be stopped until grout mortar is set (at 20°C for 10-12 hours at least).

The grout should completely fill the space between the base plate and the foundation. Exposed surfaces should be protected against water loss through evaporation for at least 24 hours. Application between temperatures of +5°C to +30°C is recommended.

Important Points
*****Especially in open-air environments with hot, dry, or windy conditions, protection against rapid evaporation should be provided with special curing materials for 24-48 hours.
*The material must be used within 30 minutes at 20°C.
*The pouring of the grout should be continuous, and a vibrator should not be used. Pouring should be done from one side only to eliminate air cavities, and pouring from both sides should never be done.

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*The ambient and surface temperatures at which the application will be carried out should be within the permitted temperature range as it affects the hydration reaction of cement.
*The application should be done with a minimum thickness of 10 mm and a maximum thickness of 100 mm.
*For thicker applications, the material should be applied in 2-3 layers, or a single layer can be applied by adding clean aggregate to the grout mortar.

Technical Specifications

Structure of the Material	Mineral Fillers and Polymer Reinforced Special Cement.
Colour	Grey
Compressive Strength	> 55 N/mm^2 (28 days)
Bending Strength	> 8 N/mm^2 (28 days)
Adhesive Bond Strength	> 2 N/mm^2 (28 days)
Application Thickness	min. 10 mm max. 40 mm
Service Temperature	-20 ^{0}C + 400 ^{0}C
Temperature of Application Floor	+5 ^{0}C - +30 ^{0}C
Exposure Time	30 min (+20 ^{0}C)
Through dry time	24 hrs (+20 ^{0}C)
Full Curing Time	28 days

* Typical values have been obtained as a result of experiments done at +23°C, 50% relative humidity, 4x4x16 cm mortar prism. The values may change due to the difference in site ambient. High temperatures shorten and low temperatures extend the durations.

Consumption
17-18 kg/m^2 for 10 mm thickness.

Cleaning of the Tools
After application, the tools and equipment used should be cleaned with water.

After the material is hardened, it can only be cleaned mechanically.

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POMZA EKSPORT SAN. TİC. AŞ.-EİLE
MENDERES-İzmir/ Türkiye
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TS EN 1504- 3
CONSTRUCTURAL REPAIR MORTAR

Compressive strength: R4
Bond strength:2N/mm2
Reaction to Fire Class: A1
Controlled shrinkage expansion: 2N/mm2

Package
25 kg Kraft Bag

Storage: Unopened original packaging should be stored stacked up to a maximum of 10 layers in a cool and dry environment.

Shelf Life: Under the specified storage conditions and in unopened packaging, the shelf life is 12 months from the production date.

Safety Recommendations: Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.
Responsibility: In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş., the producer of eile POMEX branded products.** The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.
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