

EUNIGROUT 600

NON SHRINK FLUID MICRO CONCRTE/UNDERWATER GROUT

DESCRIPTION

EUNIGROUT 600 is a ready-to-use, single-component cementitious grout requiring only the addition of water on-site. Ideal for demanding structural repairs, it integrates seamlessly with host concrete, ensuring compatibility and integrity. Crafted from hydraulic cement, graded aggregates, and specialized additives, it offers exceptional properties and performance.

USES

EUNIGROUT 600 offers a wide array of applications, making it a versatile solution for various repair needs. It excels in repairing precast parts constructed from reinforced concrete, ensuring structural integrity and longevity. Additionally, it is an ideal choice for general void filling tasks, such as coring in concrete and jointing. This product also finds its place in pile cap repair projects, enhancing the durability of these critical components. Moreover, EUNIGROUT 600 is well-suited for deep repairs of structural concrete elements, including slabs, beams, columns, and footings, ensuring the structural soundness of these essential parts of construction projects.

ADVANTAGES

- Guarantees consistently high quality due to factory-controlled pre-blending.
- Designed for grouting and repair tasks of substantial thickness, ranging from 50 mm up to 500 mm.
- Non-shrinkage and boasts low porosity, enhancing its performance.
- Self-leveling product, ensuring even and smooth application.
- Renowned for its high strength, making it a reliable choice for structural and repair projects.

TYPICAL PROPERTIES

Appearance	Grey powder
Specific Gravity	2.3 - 2.4 g/cm ³
Fresh wet Density	2.2 kg/L
Maximum Grain Size	2.4 mm
Application Thickness	50 mm - 500 mm
Compressive Strength ASTM C109/109M	≥ 20 MPa @ 1 days
	≥ 42 MPa @ 3 days
	≥ 60 MPa @ 7 days
	≥ 70MPa @ 28 days
Porosity	≤ 0.1 mm
Initial set	7 Hours
Final set @25°C	15 Hours
Application Temperature	5 -35 °C

APPLICATION

Surface Preparation

To ensure the best results, the surface must meet specific criteria. It should be sound, free from loose materials, grease, laitance, dirt, curing compounds, or any other contaminants that might affect adhesion. Before the application of EUNIGROUT 600, it's essential to wet the substrate. This should be done to attain a saturated and surface-dry condition, optimizing the bond and performance of the grout. Proper surface preparation is fundamental to the effectiveness of the product.

MIXING

Mixing ratio: 2.8 L - 3 L water per 25 kg bag

To achieve optimal results during the mixing process, it is advisable to employ a mechanically powered grout mixer. When dealing with quantities up to 50 kg, a slow-speed drill fitted with a high shear mixer is suitable, whereas larger quantities necessitate the use of a high shear vane mixer. For a seamless and uninterrupted grouting operation, it is essential to ensure an adequate mixing capacity and labor. This may involve the use of a grout holding tank equipped with gentle agitation.

The addition of water, measured accurately at 11% - 13% by weight of the grout, should be performed in a precise manner into the mixer. Subsequently, add the entire contents of the EUNIGROUT 600 bag while maintaining continuous mixing for a duration of 10 - 15 minutes. This diligent approach ensures that the grout achieves a smooth and consistent consistency.

It is important to note that adding the recommended water first, followed by the gradual introduction of the powder while maintaining uninterrupted mixing, is a critical aspect of the process.

Application Instructions

To maximize the benefits of the expansion process, it is recommended to place the grout within 15 minutes of mixing when the temperature is at 25°C. It's important to regulate the time it takes to pour a batch to align with the preparation time for the next one. This ensures that the grout is applied efficiently and effectively, taking full advantage of the product's properties.

YIELD

EUNIGROUT 600 yields approximately 12-13 litre per 25Kg bag.

CURING

After finishing the grouting process, it is crucial to take the following steps for proper curing:

- For the initial 24 hours, ensure that exposed areas are well-covered with polyethylene sheets to prevent water evaporation from the mix.
- Subsequently, continue curing by applying clean potable water twice a day for the following 3 days. This curing regimen is essential for the long-term quality and performance of the grouted area.

PACKAGING

EUNIGROUT 600 is supplied in 25 kg multiply paper bags.

STORAGE

EUNIGROUT 600 should be stored and maintained in dry place.

The shelf life of EUNIGROUT 600 is 12 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at techsupport@alfaihaengineering.com.

DISCLAIMER

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due

to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.