

EUNIGROUT 500+

RAPID FLOOR SELF-LEVELLING CEMENTITIOUS GROUT FOR THICKNESSES BETWEEN 0.5MM TO 50MM

DESCRIPTION

EUNIGROUT 500+ is a premixed cementitious non-shrink grout that comes as a one-component cementitious powder blend. It requires only the addition of water to form a self-leveling floor topping. It is specifically designed to provide outstanding flow properties for thicknesses ranging from 0.5 mm to 50 mm.

USES

EUNIGROUT 500+ is suitable for various grouting applications such as:

- Underplate grouting
- Space grouting
- Repairs to precast concrete
- Bedding bearing plates
- Anchor bolt fixing
- Cable grouting and crane rail assembly
- Concrete repairs and floor toppings
- Suitable for machine application

ADVANTAGES

- Non-segregating
- High strength
- Easy to apply
- Good self-levelling and smooth surface
- Excellent flow retention and long usable life even at high ambient temperatures
- High, non-corrosive bonding to steel and concrete.
- Non-oxidizing and free from chlorides and nitrates.

APPLICATION

Surface Preparation

Prior to application, it is important to ensure that all surfaces are clean and in good condition. Remove any surface laitance by using acid etching or grinding methods.

It is recommended to thoroughly wet all surfaces 6 - 24 hours before starting the application and maintain a moist condition during the placing process. Any excess surface water should be removed prior to applying the product. This preparation ensures optimal bonding and performance of the material.

TYPICAL PROPERTIES

Appearance	Grey Granular Powder
Fresh Wet Density	2.13 Kg/L
Compressive Strength (BS 6319, Part 2), @ 20°C	≥ 50 MPa @ 3 days ≥ 60 MPa @ 7 days ≥ 70 MPa @ 28 days
Water Absorption	< 0.05%
Initial set	5 Hours
Final set	12 Hours
Application Temperature	5 - 35 °C

MIXING

For optimum dispersion and workability, it is recommended to use mechanical grout mixers. Conventional or hand mixing may lead to lower workability. It is important not to exceed the water content, as it can result in a loss of properties. Start by mixing the dry powder and gradually add 3.5 - 4 liters of water over a span of 1 - 2 minutes. Continue mixing for an additional 2 - 3 minutes until the mixture is smooth and cohesive. It is advisable to maintain consistent timings for each operation to achieve consistent results whenever possible.

Application Instructions

1. Under-plate grouting

Before starting to mix the grout ensure that the form-work is properly sealed to prevent grout leakage.

Sufficient material should be available to complete the entire task and achieve a continuous fill.

Its important to pour the grout from one side only so as to avoid air entrapment. make sure not to vibrate the grout, but rods, straps and chains can be use to assist the complete filling. It is important to note that the compressive strength development and ultimate strength of the concrete may be slightly reduced compared to flowing grouts.

2. Pumping

EUNIGROUT 500+ can be effectively pumped using grout pumps equipped with ball valves, such as piston, ram or diaphragm pumps.

CURING

Proper curing is crucial for all exposed surfaces, especially under dry and sunny conditions. Failure to properly cure the surfaces can result in reduced bond, strength and durability. Fortunately, alternative methods of curing can be employed, such as water ponding, mist spraying, or using wet hessian, among others. These methods help maintain the necessary moisture levels for optimal curing and ensure the desired performance and longevity of the material.

YIELD

EUNIGROUT 500+ yields approximately 13 - 13.5 litres per 25Kg bag.

PACKAGING

EUNIGROUT 500+ is supplied in 25 kg bags.

STORAGE

EUNIGROUT 500+ should be stored and maintained in dry and cool conditions at temperatures between 2°C and 40°C. The shelf life of EUNIGROUT 500+ is 12 months from the date of production.

HEALTH AND SAFETY

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

CONTACT

For information regarding the licensee or manufacturer for ECA, 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.