ECA WATERPLUG+

POLYMER MODIFIED RAPID SETTING CEMENTITIOUS MORTAR TO PREVENT THE LEAKS OF WATER

DESCRIPTION

ECA WATERPLUG+ is a one-component, fast-setting, hydraulic cementitious mortar engineered to create a dense barrier for permanently sealing active water. With polymer modification, it boasts superior adhesion and bonding properties.

USES

ECA WATERPLUG+ offers a wide range of applications such as:

- Effective at stopping active water or seepage in concrete or masonry
- Reliable alternative to standard mortar, with superior bonding
- Useful as a sealant for construction joints, especially in
- basement tanking
- Provides robust protection against water ingress in water-retaining structures
- Rapid action for instant sewer connections and anchoring various elements
- Enhances structural integrity through joint filling and pointing
- Valuable asset for diverse construction and maintenance tasks

ADVANTAGES

- Durable
- Easy to apply
- Mechanical characteristics similar to concrete
- Excellent bond to concrete and masonry
- High early strength
- Suitable for both interior and exterior use
- Non-shrink, ensuring stability and consistency in application

STANDARD

ECA WATERPLUG+ complies with the following standards:
(BS 6319, PART 2) related to compresive strength

TYPICAL PROPERTIES @23°C ± 2°C	
Appearance	Grey Powder
Bulk Density	(1.225 - 1.350) g/cm^3
Compressive Strength (BS 6319, PART 2)	
@1 Day	18 MPa
@7 Days	35 MPa
@28 Days	45 MPa
Setting Time (@ 21°C)	60 Seconds

Set times will be prolonged in colder conditions and shortened in warmer conditions.

APPLICATION

surface preparation

For effective patching, prepare the designated areas by cutting them back to a depth of 15 mm. Then, meticulously clean the surface to remove loose materials, dust, and laitance, as well as any grease, slime, or mold growth using steam cleaning or high-pressure water jetting.

MIXING

- For optimal results, add approximately (0.28 – 0.30 L) of water per 1 kg of ECA WATERPLUG+
- Mix the components to achieve a stiff consistency using a suitable mixing drum or bucket
- Utilize a trowel or gloved hand for the mixing process
- Due to the rapid set characteristics of the product, prepare only a quantity of mortar that can be placed within the prescribed set time
- This ensures efficient application and adherence to the product’s properties

Note :

- Because of the product's quick setting characteristics, only mix small quantities that can be utilized within the allotted setting time
- In extremely cold weather, it's recommended to use warm water to improve strength development, conversely, for hot weather conditions, store the material in a shaded area and use cooler water

APPLICATION INSTRUCTIONS

- Apply the mixed mortar using a trowel or hand-kneading method
- Ensure maximum contact with the substrate before the material sets
- Place until the initial set is reached for effective sealing
- Maintain a minimum applied thickness of ECA WATERPLUG + of 15 mm
- Adhere to recommended guidelines for optimal performance
- Ensure maximum contact with substrate before material sets
- Hold ECA WATERPLUG+ in place until initial set for addressing running water

COVERAGE

ECA WATERPLUG+ yields approximately 3.25 liters for the 5 kg can and 13 liters for the 20 kg can.

PACKAGING

ECA WATERPLUG+ is supplied in 5Kg cans and 20Kg cans.

STORAGE

ECA WATERPLUG+ should be stored in a cool, dry place, away from direct sunlight and extreme heat and cold.
The shelf life of ECA WATERPLUG is 12 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safet 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.