ECA WATERPLUG

RAPID SETTING CEMENTITIOUS MORTAR TO PREVENT THE LEAKS OF WATER

DESCRIPTION

ECA WATERPLUG is a fast-setting cementitious mortar designed for swiftly patching and plugging water leaks in concrete structures.

Its rapid-setting properties make it an efficient solution for promptly addressing and repairing water-related issues.

USES

ECA WATERPLUG offers a wide range of applications such as:

- Stops active water or seepage under pressure through joints, cracks, and holes in concrete or masonry
- It provides a reliable alternative to regular mortar, which might be susceptible to washing away, and ensures a more reliable bond than resin
- It serves as an effective sealant for construction joints or floor joints, particularly useful in the preliminary stages of basement tanking
- It's useful for sealing cracks and construction joints in water-retaining structures, offering robust protection against water ingress
- it's ideal for instant sewer connections and quick anchoring of various elements such as bolts, conduits, pipes, railings, and sanitary equipment
- It contributes to the structural through joint filling and pointing

ADVANTAGES

- Durable
- Easy to apply
- Mechanical characteristics similar to concrete
- Excellent bond to concrete, masonry, metals and plastic
- Fast setting

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)	
@3 Day	20 MPa
@7 Days	28 MPa
@28 Days	
Setting Time	90 Second

Note: 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 L – 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
- If addressing running water with ECA WATERPLUG, hold it in 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

YEILDING

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

PACKAGING

ECA WATERPLUG is supplied in 5 Kg or 20 Kg bags.

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.