EURIPARE 501

HIGH-STRENGTH CEMENTITIOUS REPAIR MORTAR FOR CRACKS LESS THAN 10 MM

DESCRIPTION

EURIPARE 501 is a ready-to-use, shrinkage-compensated, one-component polymer-modified cementitious repair mortar. Its formulation includes Portland cement combined with a chemical admixture and graded, oven-dried aggregates. Additionally, it features fiber reinforcement for added strength. When mixed with water, EURIPARE 501 forms a thixotropic mortar suitable for vertical and overhead applications, ensuring effective repairs with minimal effort.

USES

- Repair of all types of concrete elements
- Repair of horizontal , vertical and overhead elements.
- Used as a repair mortar for all structural elements in buildings, water retaining structures, industrial plants, bridges, etc

ADVANTAGES

- Single-pack product for easy handling and preparation
- Shrinkage compensated
- Excellent adhesion to prepared steel and concrete
- Light density allows for overhead application in thicker layers
- Low water permeability

APPLICATION

SURFACE PREPARATION

Before applying EURIPARE 501, ensure all surfaces are clean, sound, and free from laitance. Use acid etching, mechanical grinding, needle gunning, or grit blasting to remove laitance and debris. Wet the surfaces thoroughly before starting, and maintain a moist condition during placement. Cut back repair sites with square edges, and remove any free surface water before application.

TYPICAL PROPERTIES	
Appearance	Grey Powder
Fresh Density	1.6 g/cm^3
Recommended Thickness	<10 mm
Compressive Strength	@ 3Days : 33 MPa
Bond Strength (BS 6319, Part 4)	13 Mpa @ 28Days
Working Time	35min. @27°C
Drying Time	20 min. after Spread
VOC (ASTM D2369)	≤ 10 g/ltr

Note:

- Any damaged or weak concrete should be cut until reaching sound concrete, or to a minimum depth of at least 10 mm
- Corroded steel reinforcement should be grit blasted to remove all rust traces. In case of significant loss in the steel reinforcement cross section, the steel should be replaced. Remove all concrete form around exposed steel reinforcements by 10 mm thickness

MIXING

Mixing Ratio: 0.18 - 0.2 (water:powder)

By following these guidelines, optimal performance of EURIPARE 501 can be ensured:

- Begin by pouring the EURIPARE 501 powder component into a suitable vessel or container
- Gradually add 4.5 L - 5 L of water to the vessel while stirring diligently
- Stir the mixture diligently using a slow-speed paddle stirrer. Ensure thorough mixing to achieve a homogeneous consistency
- Continue stirring until the mixture reaches the desired consistency. The goal is to achieve a cohesive, lump-free mortar. For larger batches, consider using a pan mixer such as a cretangle for more efficient blending

- For smaller quantities (up to 10 kg), manual mixing in a bucket is acceptable. Avoid mixing on a spot board
- The key is to ensure that the mortar is free from lumps and has a uniform texture throughout
- Properly preparing EURIPARE 501 ensures effective and reliable repairs upon application
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APPLICATION INSTRUCTIONS

After mixing, EURIPARE 501 remains workable for approximately 30-40 minutes. During this time, it should be pressed into place using gloved hands or a trowel. Ensure thorough compaction by using the face of a wooden or steel float to achieve a closed surface finish. By following these steps, you can achieve a well-applied and compacted repair with EURIPARE 501.

PLACING AND FINISHING

To apply Euripair 501, you can use either a trowel or apply it by hand. When applying the mixed mortar, make sure to use firm pressure to fully compact it, ensuring strong adhesion with both the steel reinforcements and the substrate. Initially, use a wooden or plastic float to finish and level the surface. For the final finishing touches, switch to a steel float.

CURING

Proper curing is crucial, especially on exposed surfaces, particularly in dry and sunny conditions. Failure to do so can lead to reduced bond, strength, and durability of the repair. After finishing the application, promptly apply a sealer/membrane to all exposed surfaces.
Alternatively, other suitable curing methods should be used for at least 3 days to ensure the best results and long-lasting performance.

COVERAGE

The coverage of EURIPARE 501 is approximatel 15.6 L per bag.

PACKAGING

EURIPARE 501 is supplied in 25 kg bags.

STORAGE

EURIPARE 501 should be stored and maintained away from direct sunlight and off the ground. Store it on pallets, protected from rainfall. Avoid excessive compaction, as it may damage the product or packaging. Failure to comply with these storage instructions can lead to premature deterioration. The shelf life of EURIPARE 501 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.