

EURIPARE 503

SINGLE COMPONENT HIGH STRENGTH FIBER REINFORCED STRUCTURAL REPAIR MORTAR BETWEEN 10 MM TO 30 MM

DESCRIPTION

EURIPARE 503 is a high-strength, single-component, fiber-reinforced structural ready-to-use, shrinkage-compensated cementitious repair mortar. When mixed with water, it produces a thixotropic repair mortar.

USES

EURIPARE 503 is ideal for repairing significant structural elements, including columns, beams, walls, bridges, culverts, as well as applications in oil and gas installations, sewerage systems, and treatment plants.

ADVANTAGES

- Excellent workability for easy mixing
- Reduces cracks
- Controls shrinkage
- Can be applied in thick layers
- Excellent adhesion to prepared steel and concrete
- Suitable for overhead application in thicker layers

STANDARD

EURIPARE 503 complies with BS EN 1504, protection and repair of concrete structures.

APPLICATION

Surface Preparation

For optimal application, begin by ensuring that all surfaces are clean and in sound condition. Thoroughly spray water on all surfaces to achieve a clean structure.

Then, mix EURIPARE BA9 with cement and apply a prime coat to prepare the surface.

Note:

- Any damaged or weak concrete should be cut until reaching sound concrete, or to a minimum depth of at least 10 mm

TYPICAL PROPERTIES

Appearance	Grey Powder
Wet Density	1.8 g/cm ³
Recommended Thickness	10 mm - 30 mm
Compressive Strength @ 7Days in Compliance with (BS 1881, Part 116)	> 60 MPa
Tensile Strength in Compliance with (BS 6319:1985, Part 7)	> 5 MPa
Flexural Strength in Compliance with (BS EN 1015, Part 11)	> 12 MPa
Initial Setting	5 Hours + 20min.
Final setting	7 Hours + 10min.
Application Temperature	5°C - 35°C
E-Modulus (BS EN 13412-07)	> 30,000 MPa

- 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.

Application Instructions

Apply the EURIPARE 503 paste to the structures in need of repair, varying the thickness as necessary.

Finally, facilitate the curing of the repaired mortar by using water and hessian cloth or by applying EUNICURE CUREX 90 curing compound.

This comprehensive application process ensures effective and reliable structural repairs.

MIXING

- Begin by pouring the EURIPARE 503 powder component into a suitable vessel or container
- Gradually add 3.5 – 4.5 liters of water to the vessel while stirring diligently
- 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

PLACING AND FINISHING

To apply Euripair 503, 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.

YIELD

Approximately 14 litre per 25Kg bag.

PACKAGING

EURIPARE 503 is supplied in 25 kg bags.

STORAGE

EURIPARE 503 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 503 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.