

EURIPARE BA9

SBR BASED BONDING AGENT

DESCRIPTION

EURIPARE BA9 is a water-based liquid dispersion formulated from a Styrene Butadiene Rubber co-polymer. It is employed to substantially enhance cementitious mixes, increasing bond strength, tensile strength, and flexural strength while improving resistance to abrasion, chemical attack, water, and vapor transmission.

USES

EURIPARE BA9 finds applications in various areas:

- Bonding new concrete to old concrete
- Repairing concrete structures
- Creating flooring mixes for screeding and patching
- Applying waterproof renders to tanks
- Preparing filling and injection grouts
- Formulating tiling and setting mortars
- Incorporating into gypsum board and gypsum mixes to meet ANSI standards

ADVANTAGES

- Enhances adhesion and bonding of cementitious or gypsum mixes
- Improves workability and cohesion, acting as an effective bonding agent
- Enables water content reduction for improved durability and strength while maintaining workability
- Excellent waterproofing properties, remaining stable in cementitious admixtures
- Reduces shrinkage and cracking in repair and screeding mixes
- Exhibits good resistance to freeze/thaw cycles
- It provides protection against corrosion when applied to metal surfaces

TYPICAL PROPERTIES

Appearance	White Liquid
Specific Gravity (@20°C)	1.01 g/cm ³ ± 0.02 g/cm ³
Particle Size	0.2 µm
Solid content, [%]	25%
Application Temperature	5°C - 35°C

APPLICATION

Surface Preparation

In order to prepare the surface for application, it is important that it is clean, free from laitance (a weak layer of cement and fine particles) and has a roughened texture. For large areas, it is recommended to use grinding or scrubbing machines.

Additionally, when repairing areas, the edges should be cut back to prevent feathering.

If there is exposed steel, it should be grit blasted or wire brushed to achieve a bright finish,

followed by the application of a suitable protective coating.

Prior to applying the mortar, all surfaces should be saturated with water and any ponded surface water should be removed after 24 hours.

Application Instructions

1. Bond coating

Application:

Mix the cement into EURIPARE BA9 until cohesive, then apply a thick coat to the wetted surface using a stiff brush. Concrete renders and mortars should be applied while the bond coat is still wet. It is important not to apply over dry bond coats; in such

cases, hand scabble the dry coat before applying a new bond coat. The bond coats remain 'tacky' for about 20 minutes, depending on the ambient temperature. The consistency of the mixture is a brushable slurry.

2. Adhesive mortars

Application:

Begin by dampening or wetting the prepared substrate and the back of the brick or tile. Apply a bond coat to the substrate, ensuring it is still wet. Over this wet bond coat, apply a 5mm to 6mm render with a notched float. Press the brick or tile into the render, ensuring a secure bond. The same mix can be used later for grouting purposes. The mixture should exhibit a plastic, trowelable mortar consistency for these applications.

3. Flooring patching renders

Application:

EURIPARE BA9 is an excellent choice for concrete repair, reinstatement of old floors, floor patching, general purpose concrete repair, and renders. To begin, dampen/wet the prepared substrate, then apply a bond coat while it is still wet. Next, place the screed, repair, or render mix using a wooden float to apply and compact. For repair mixes, a semi-dry consistency is recommended, and they should be rammed into place. Finish the application with a steel float.

4. Waterproof renders

Application:

EURIPARE BA9 is well-suited for sealing and waterproofing concrete water tanks, basements, and exterior foundation tanking. After preparing the surface and wetting it, apply a horizontal brush coat of bonding mix. Once the first coat is almost touch dry, apply a further coat vertically, each being 1mm thick. Lightly scratch the surface of the second coat when it is nearly touch dry and allow 24 hours for curing. Then, apply another bond coat, and while it is still wet, towel on the render coat to a thickness of up to 10mm. Additional render coats can be applied as needed, at intervals of 1-2 hours. Finally, close up the final coat with a steel finishing float. The mechanical properties of this waterproof render are similar to those of the thin section EURIPARE BA9 floor repair mix design, ensuring reliable waterproofing and protection.

5. Floor screeds

Application:

EURIPARE BA9 is an ideal choice for levelling uneven floors, large area patching, and creating abrasion-resistant screeds in heavy-duty areas. To apply, first prime the prepared substrate using an epoxy bonding agent and wait for 10-15 minutes.

Then, spread the mixed polymer-modified screed mortar using a rake or screeding bar, or opt for a polymer-modified cement-based bonding coat. Level the screed to the desired thickness by manually compacting with a wooden float and using a screeding lath to control thickness. Achieve a smooth finish with a wood or steel float.

Application consumption

Application Method	Bond coating		Adhesive mortars	Waterproof Renders
	Part By Weight	Part By Volume	Mix Design	Mix Design
Cement PC/SRC	2.0	1.5	50 Kg	50 Kg
EURIPAIR BA3	1.0	1.0	12 Liters	10 Liters
Meduim Sand	-	-	75 Kg	-
Coarse, Clean Sand	-	-	-	125 KG
Water	-	-	3 - 4 Liter	5 - 10 Liter

CURING

Thorough curing is crucial for all exposed surfaces, especially in dry or windy conditions. To achieve proper curing, one or two coats of a proprietary curing membrane sealer can be applied. Alternatively, other effective methods such as water misting, using polyethelene sheeting, or employing similar techniques are also suitable options to ensure the curing process is effective and prevents premature drying or cracking. By providing adequate and appropriate curing, the durability and performance of the applied material can be significantly enhanced.

Typical properties

Typical Properties	Bond Strength (@28 days) (BS 6319, Part 4)	Compressive Strength (BS 6319, Part 2)	Flexural Strength (BS 6319, Part 3)
Bond coating	28.6 MPa	-	-
Adhesive Mortars	26.2 MPa	45.0 MPa	8.2 MPa
Floor Screed	-	1 Day: 10 MPa 7Days: 55 MPa	28 Days : 9.5 MPa

PACKAGING

EURIPARE BA9 is supplied in 5, 25 or 200 liter drums.

STORAGE

EURIPARE BA9 should be stored and maintained in a dry area, protected from extreme temperatures. The shelf life of EURIPARE BA9 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

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