EURIPARE BA3

MODIFIED SBR BASED BONDING AGENT

DESCRIPTION

EURIPARE BA3 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 BA3 finds application in a wide range of scenarios, making it a versatile choice for enhancing cementitious mixes.

- Bonding of new to old concrete when used as a slurry coat.
- To produce polymer modified screeds and floor toppings.
- To produce a mechanical key prior to rendering of various plaster mixes on concrete, brick and block surfaces.
- To produce a repair mortar for patching of honeycombed concrete, internally and externally in addition to increase bonding of concrete repair mortars.
- To produce waterproofing renders.

ADVANTAGES

- Increases the bonding/adhesion of cement mixes, concrete, brick, and masonry surfaces
- Enhances the adhesive, compressive, and tensile Strengths of cementitious mixes or gypsum mixes
- Increase in impact and abrasion resistance patching for flooring, stairways, walls, columns, and other surfaces
- Effective product giving improved workability and cohesion
- Exhibit low permeability and are well-suited for waterproof sealing and lining of tanks, pools, and other structures
- Demonstrates excellent chemical resistance to oils, grease, salt solutions, and mild acids
- Waterproof slurry render designed for sealing basements, tunnels, reservoirs, pipes, and areas where water seepage is undesirable. It also serves to protect metal against corrosion

TYPICAL PROPERTIES	
Appearance	White Liquid
Specific Gravity (@20°C)	1.02 g/cm³ ± 0.02
Solid content, [%]	50%
Application Tempreature	5°C - 35°C

APPLICATION

Surface Preparation

In all situations the surface must be clean, sound, and free from dirt, dust, and other loose particles.
All oil and grease contaminants must be removed. It is recommended that edges of concrete repair areas be squared off/cut back to allow for maximum adhesion and structural soundness of the repair.

Surface preparation of exposed steel should ensure that the surface to be coated is rust-free before application.
Concrete surfaces should be saturated with water before application, to minimize absorption into the substrate.
Free standing water must be removed.
Alternatively, if the substrate is porous and particularly for flooring applications, it is recommended that the surface be sealed with EURIPARE BA3, diluted with 2 parts water.

In the majority of applications using wet mixes, bond coats are not required, but for semi-dry mortars, a bonding coat should be used. Never allow bond coats to dry before applying the mortar screed, render or repair material.
If this happens then scratches marks the coating and apply a further wet bond coat.

Application Instructions

1. **Bond coating**

Application:

For the application process, start by mixing the cement into the EURIPARE BA3 until a cohesive mixture is achieved. Subsequently, apply a thick coat to the wetted surface using a stiff brush, ensuring thorough penetration into the surface.

It's important to note that concrete renders and mortars should be applied while the bond coat is still wet. Be sure to avoid applying over dry bond coats. In cases where a bond coat has dried, scabble the dry coat by hand before applying an additional bond coat. It's worth mentioning that bond coats typically maintain their tackiness for approximately 20 minutes, with the specific duration depending on the ambient temperature.

2. Waterproof Slurry

Application:

Apply the polymer-modified slurry mix to the well-dampened substrate using a brush or trowel, ensuring even spread at a thickness of 0.5mm-2mm. Allow the first coat to harden sufficiently, which usually takes 6-24 hours, before applying an additional application at the same thickness. Use the appropriate number of coats to ensure complete coverage.

3. Concrete/Flooring Repairs Objective:

Application:

Start dampening or wetting the prepared substrate, then you should apply a bond coat while the substrate is still in its wet state. Then, carefully place the screed, repair, or render mix on the wet surface using a wood-

Application Method	Bond Coating	Waterproof Slurry
	Mix Design	Mix Design
Cement: OPC/SRC	50 Kg	50 Kg
Sand:0- 0.3 mm	-	25 Kg
EURIPAIR BA3	16 Liters	25 Liters
Coverage	1-2 kg/m² (0.4 liters EURIPARE BA3/ m²)	2-3 kg/m² (0.6 liter EURIPARE BA3/m²)

Typical Properties	Bond Strength, Slant Shear Method (BS 6319, Part 4)	Flexural Strength (BS 6319, Part 3)	Abrasion and Impact Resistance
Bond Coating	25.5 Mpa	-	-
Waterproof Slurry	24.0 Mpa	11.0 Mpa	-
Polymer Concrete Objective	-	-	Coat 1 65.0 Mpa
			Coat 2 12.7 Mpa

Application Method	Concrete/Flooring Repairs Objective		Polymer Concrete Objective	
	For Floor Repair Thickness: 15 mm - 25 mm	For Floor Repair Thickness: 10 mm - 20 mm	Mix Design (Control)	Mix Design (EURIPAIR BA3)
Cement OPC/SRC	50 Kg	50 Kg	-	-
Gravel 3mm	100 Kg	100 Kg	-	-
Sand Grade M	100 Kg	50 Kg	-	-
W/C Ratio	7 Liters	10 Liters	0.7	0.53

CURING

Thorough curing is essential for all exposed surfaces, especially in dry or windy conditions. Curing can be achieved with one or two coats of a membrane sealer. Alternatively, other methods such as water misting, polyethelene sheeting, and similar techniques are also suitable.

PACKAGING

EURIPARE BA3 is supplied in 5, 25 or 200 liter drums.

STORAGE

EURIPARE BA3 is a stable non - flammable product. Store in closed containers, at temperatures of 10°C - 40°C for maximum storage life. The shelf life of EURIPARE BA3 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.