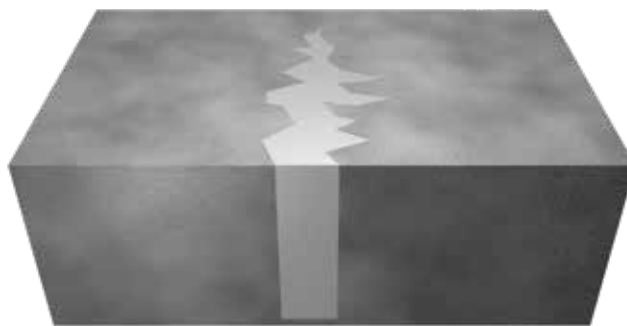


EURIPARE BA3

Bonding agent



Product Description

EURIPARE BA3 is a liquid, water-based dispersion, based on a styrene-acrylic polymer system. It is used to modify cementitious mixes significantly increasing bond, tensile and flexural strengths, whilst improving resistance to abrasion, chemical attack, water and vapor transmission.

Advantages

- EURIPARE BA3 dramatically improves adhesive, compressive and tensile strengths of cementitious mixes.
- Greatly increased impact and abrasion resistance.
- Self-leveling, flowing consistency mixes can be produced to enable placement under difficult conditions.
- Mixes containing EURIPARE BA3 have low permeability, and are suitable for waterproof sealing and lining of tanks, pools, etc.
- Chemical resistance to oils, grease, salt solutions and mild acids is very good.

Typical Properties

Appearance: White liquid

Specific Gravity: 1.02 ± 0.02 at 20°C

Storage life: 12 months from date of manufacture.

Uses

- Heavy duty trowelled floors.
- High strength bonding of concrete.
- Waterproof renders for tiling and Brickwork.
- Resurfacing old concrete or granolithic floors.
- Self-leveling floor screeds.
- High strength repair and patching mixes.
- Mortar lining of areas subject to abrasive or mild chemical action, effluent ducts, tanks, etc.
- Waterproof slurry coats to level and seal walls,

floors and tanks.

Method of Use

Surface Preparation: In all situations the surface to be treated or coated, 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

1. Bond Coating Objective

Bond/adhesion coat for concrete, brick and masonry surfaces, to accept cementitious renders, screeds or repair mixes. Waterproof slurry coating for concrete surfaces.

Mix Design

Cement: OPC/SRC: 50 kg

EURIPARE BA3: 16 liters

Coverage: $1\text{--}2 \text{ kg/m}^2$ equivalent to $0.4 \text{ liters EURIPARE BA3 per m}^2$

Application

Mix the cement into the EURIPARE BA3 until cohesive. Use a stiff brush to apply a thick coat to the wetted surface. Work well into the surface. Application of concrete renders and mortars should take place while the bond coat is still wet. Do NOT apply over dry bond coats; in this case hands scabble the dry coat before applying a further bond coat. Bond coats remain 'tacky' for approximately 20 minutes depending on ambient temperature.

Typical Properties

- Bond strength, Slant Shear Method, BS 6319, Part 4: 25.5 N/mm²

2. Waterproof Slurry Objective

Waterproof slurry render for sealing basements, tunnels, reservoir, pipes and areas where water seepage is undesirable. Protection of metal against corrosion.

Mix Design

Cement, OPC/SRC: 50 kg.

Sand 0-0.3mm: 25 kg.

EURIPARE BA3: 25 liters.

Coverage: 2-3 kg/ m² equivalent to 0.6 liter

EURIPARE BA3 per m²

Application

Apply the polymer modified slurry mix to the well dampened substrate using a brush or trowel and spread evenly at a thickness of 0.5mm- 2mm. Leave the first coat for 6-24 hours until it has hardened sufficiently before applying a further application at the same thickness. Use the appropriate number to coats to ensure complete coverage.

Typical Properties

- Bond Strength, Slant Shear Method, BS 6319, Part 4: 24.0 N/mm²
- Flexural Strength, BS 6319, Part 3: 11.0 N/mm²
- Compressive Strength, BS 6319, Part 2: 50.2 N/mm²

3. Concrete/Flooring Repairs Objective

- Trowelled repair mortars of plastic consistency to provide impact and abrasion resistant patching to flooring, stairways, walls, column, etc.

Mix Design

Floor Repair Thickness: 15-25mm 10-20mm

Cement, OPC: 50 kg 50 kg

Sand Grade M: 100kg 100 kg

Gravel 3mm: 100kg 50 kg

EURIPARE BA3: 15 liters 10 liters

Water: 7 liters 10 liters

Application

Dampen/wet the prepared substrate, apply a bond coat and while still WET place the screed, repair or render mix using a wooden float to

apply and compact. Repair mixes are best placed at a semi-dry consistency, rammed into place. Finish with a steel float. Good curing is essential to prevent drying and cracking.

4. Polymer Concrete Objective

Typical Properties	Coat 1	Coat 2
Abrasion and Impact Resistance	High	Medium
Compressive Strength, BS 6319, Part 2	65.0 N/mm ²	67.3 N/mm ²
Flexural Strength, BS 6319, Part 3	12.7 N/mm ²	13.0 N/mm ²

Production of flooring grade wet concrete mixes with improved adhesion and flexural strength, without excessive air entrainment.

Application

EURIPARE BA3 must be incorporated into the concrete mix at the mixing/batching plant because of its high range water reducing effect. Concretes produced in this way behave similarly to conventional concrete although they have a slightly shorter usable life. Also there is a tendency for any residues left in the mixer to dry quickly and mixers and other equipment should therefore be cleaned as soon as possible.

Mix Details	Mix 1	Mix 2
	Control	EURIPARE BA3
Dosage	0	20% by weight of cement
W/C	0.70	0.53

Dosage

EURIPARE BA3 can be used neat or diluted with water. Levels quoted in the 'Application' section are given only as a guide. Dosage will vary depending upon the application.

Curing

Thorough curing is essential on all exposed surfaces, particularly in dry or windy conditions. One or two coats of a membrane sealer will provide curing. Alternative methods such as water misting, polythene sheeting and similar techniques are also suitable.

Health and Safety

For further information see the EURIPARE BA3 Material Safety Data Sheet, or consult our technical department.

Packaging

EURIPARE BA3 is supplied in 25 liter and 210 liter free, nonreturnable containers.

Storage

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

Technical Service

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

Contact Information

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