EURIPARE BA9

Bonding agent

Product Description

EURIPARE BA9 is a liquid, water based styrenebutadiene polymer latex with high bonding characteristics. It is stable under wet alkaline conditions forming a reinforcing polymer matrix cementitious mix. Uses Bonding of new to old concrete, repair concretes, flooring mixes from screeding and patching, waterproof renders to tanks, filling/injection grouts, tiling and setting mortars to ANSI standards.

Advantages

• Dramatically improves the adhesion/ bonding of cementitious mixes.
• Effective plasticizer giving increased workability and cohesion. Also allows reductions in water contents to improve durability and strength without loss of workability.
• Excellent waterproofing admixture which is alkali stable in cementitious admixtures.
• Reduces shrinkage and cracking in repair and screeding mixes. Good freeze/ thaw resistance.

Typical Properties

Appearance: White liquid
Specific Gravity: 1.01 at 20°C
Particle Size: 0.20 microns
Storage life in manufacturer's Drums: 12 months from date of manufacture.
Service: In-service details depend to a great extent on the mix design and polymer content. It is generally noted that at fairly dry consistencies, mixes containing higher amounts of EURIPARE BA9 show increased flexural, tensile and adhesive strengths. Generally, it is not cost effective to use EURIPARE BA9 at dosages higher than 30% by weight of cement. Actual mix details are shown in.

Method of Use

Surface Preparation In all situations the surface must be in a clean laitance free and roughened state. The use of grinding or scrabbling machines is recommended for large areas. Cut back the edges of repair areas to avoid feathering the repair. Exposed steel should be grit blasted, or wire brushed to a bright finish and a suitable prospective coating applied. After 24 hours, all surfaces should be saturated with water, removing any ponded surface water before application of the mortar.

Application

1.Bond Coating
Provision of bond/adhesion coating to concrete, masonry or brick surfaces to accept cementitious renders, screeds or repair mixes.
Mix Design - Cement: 2 parts by weight 1.5 parts by volume.
EURIPARE BA9: 1.0 part by weight 1.0 parts by volume.
Coverage (Approx.): 0.7 - 1.0kg/m^2 Mix the cement into the EURIPARE BA9 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 hand scabble the dry coat before applying a further bond coat. Bond coats remain 'tacky' for approximately 20 minutes depending on ambient temperature. Consistency: Brushable slurry. Bond strength, BS6319 Part 4: Prepared Concrete Plaques 28.6 N/mm^2 Waterproof slurry render for sealing basements, tunnels, reservoir, pipes and areas where water seepage is undesirable. Protection of metal against corrosion.

2. Adhesive Mortars
Adhesive bonding of slip bricks, tiles, and mosaics. Grouting and pointing mortars with some chemical resistance.
Mix Design – Cement: 50 kg.
Sand (medium): 75 kg.
EURIPARE BA9: 12 liters
Water: 3-4 liters
Density: 2100kg/m² Mix
EURIPARE BA9 with water, then add sand and cement, mixing until cohesive. Dampen/wet the prepared substrate and the back of the brick or tile. Apply a bond coat to the substrate, then over the WET bond coat apply a 5-6mm render with a notched float. Press the brick or tile into the render. The same mix should be used later to grout up.
Consistency: Plastic, trowel able mortar.
Bond Strength, BS6319 Part 4: Prepared concrete Plaques 26.2 N/mm² 28 days
Compressive Strength, BS 6319 Part 2: 45.0 N/mm² 28 days

Section	Thin	Thick
Mix Design	5-15mm	10-50mm
Cement	50kg	50kg
Coarse Clean Sand	125kg	100-200kg
Granite 3mm		0-100kg
EURIPARE BA9	10kg	10kg
Water	5-10ltrs	5-10ltrs
Density	2200kg/m²	2250kg/m²
Mix Consumption 15mm Thick	33kg/m²	34kg/m²

-Flexural Strength, BS 6319, Part 3:8.2 N/mm²

Section	Thin	Thick
Bond Strength, BS6319, Part4, Mortar Placed Onto Hardened Concrete, Bond Coat OPC/Water	29.0N/mm²	29.0N/mm²
Compressive Strength, BS6319, Part2		
1 day	8.2N/mm²	9.1N/mm²
7 days	37.1 N/mm²	399 N/mm²
28 days	49.8 N/mm²	54.5 N/mm²
Flexural Strength, BS6319, Part3		
28 days	9.0 N/mm²	9.5 N/mm²
Total Absorption	1.0%	0.9%

3. Flooring Patching: Renders:
Concrete Repair Reinstatement of old floors, and floor patching, general purpose concrete repair and renders. 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. Waterproof Renders
Sealing and waterproof concrete water tanks, basements and exterior foundation tanking. After surface preparation and wetting, apply horizontally a brush coat of bonding mix. When almost touch dry, apply a further coat vertically. Each coat should be 1mm thick. Lightly scratch the surface of the second coat when nearly touch dry and

Mix Design-Cement	50kg
Coarse, Clean Sand	125kg
EURIPARE BA9	10 Litres
Water	5-10 Liters

Leave 24 hours to cure. Apply a further bond coat and while it is still wet towel on the render coat at a thickness up to 10mm. Additional render coats can be applied as required, at 1-2 hour intervals. Close up the final Coat with a steel finishing float. Mechanical properties are similar to those of the thin section EURIPARE BA9 floor repair mix design.

Mix Design-Cement	50kg
Coarse, Clean Sand	100kg
Granite 3mm	100kg
EURIPARE BA9	7-9kg
Water	5-10ltrs
Density	2200kg/m²
Mix Consumption 12mm Thickness	26kg/m²

5. Floor Screeds
Levelling of uneven floors, large area patching, abrasion resistant screeds to heavy duty areas. Prime prepared substrate using an epoxy bonding agent and leave for 10- 15 minutes, before spreading the mixed polymer modified screed

mortar using a rake or screeding bar. Alternatively, a polymer modified cement based bonding coat can be used. However application of the screed should take place whilst the bond coat is still wet. Level to the desired thickness by manually compacting with a wooden float, using a screeding lath to control the thickness. Wood float the finish, or seal the surface by trowelling with a steel float. Cure with polythene Sheeting or apply a suitable curing membrane.

Compressive Strength, BS6319, Part2	
1 day	10.0 N/mm^2
7 days	55.0 N/mm^2
Flexural Strength, BS6319, Part3	
28 days	9.5 N/mm^2
Rolling Wheel Absorption - Aston University Test	
Control concrete 0.78mm(depth of wear)	
EURIPARE BA9 0.05mm(depth of wear)	

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

Health and Safety
For further information see the EURIPARE BA9 Material Safety Data Sheet, or consult European Concrete Additives.

Packaging
EURIPARE BA9 is available in 25 liter and 205 liter free nonreturnable containers.

Storage
EURIPARE BA9 is a stable product which is nonflammable. Store in closed containers, in a dry place, proyected from extreme of temperature.

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
Al-Faiha for Engineering Products
techsupport@alfaihaengineering.com
www.alfaihaengineering.com