

Technical Data Sheet

JB-A125

Cementitious Acrylic Bonding Agent, Admixture & Waterproof Coating

DESCRIPTION

JB-A125 is an acrylic copolymer emulsion, added to cement-based mixes to boost bond strength, flexibility, workability and resistance to water. It performs particularly well as a bonding agent when rendering with cement or repairing concrete.

USES

- Waterproofing wet areas such as kitchens, bathrooms, balconies and terraces
- Improving adhesion before renders, screeds or concrete toppings are applied
- Protecting reinforcement bars against corrosion
- Repairing chipped or damaged concrete edges as a patching mortar
- Blending into cement paint to boost water resistance and coverage

FEATURES

- Resists water penetration
- Adds flexibility and tensile strength, so mortars can be worked in thinner layers
- Bonds strongly to cementitious substrates
- Closes surface porosity in concrete
- Lowers water demand while keeping workability the same
- Blocks water-soluble chemicals and salts effectively
- Slows chloride ion and carbon dioxide penetration
- Water-based formulation: non-toxic, low odour, easy clean-up
- Stable under UV exposure, so it can be left uncovered

PHYSICAL PROPERTIES

(Values determined at $27 \pm 1^\circ\text{C}$)

Appearance	Milky white coloured, free-flowing liquid
Specific Gravity	1.025 – 1.035
Re-coat Time	4 – 6 hours
Full Cure	14 days
pH	> 7
Permeability of Waterproof Coating	18.21 mm @ 5 bar for 72 hours (DIN 1048, Part 5 - 1991)
Solid Content	30 – 32% (w/w)
Ash Content	< 1%
Viscosity	11 – 13 sec (Ford Cup No.4)

PERFORMANCE

Bond Strength to Concrete @ 14 days	> 2 N/mm ² (minimum, or concrete failure) (ASTM C882/87)
Compressive Strength @ 28 days (using OPC 53 cement)	> 30 N/mm ²

PACK SIZE

Available Sizes	1 litre, 5 litres & 20 litres
-----------------	-------------------------------

COVERAGE

As a Coating / Slurry — mix proportion 1 : 2 (JB-A125 : OPC Cement) by volume:

Material	One Coat (kg/m ²)	Two Coats (kg/m ²)
JB-A125	0.25	0.375
OPC Cement	0.50	0.750

As a Topping (1.5mm thickness) — quantities to cover 1m²:

Material	Quantity
JB-A125	0.65 kg
OPC Cement	1.30 kg
Fine Silica Sand	1.30 kg
Total Weight	3.25 kg



Application Instructions

SURFACE PREPARATION

Before treatment, the surface needs to be dry, clean, structurally sound, and free of oil, grease, wax, polish, laitance, dust or anything else that could break the bond. Give new substrates time to cure using standard practice first.

Any cracks, construction joints, pipe penetrations, bore holes and corners need to be dealt with before the waterproofing coating goes on.

MIXING & APPLICATION

A) As a Bonding Slurry

Wet the concrete down with clean water until it reaches a saturated-surface-dry (SSD) condition. Mix the bonding slurry at a ratio of 1 part JB-A125 to 2 parts OPC cement by volume, then brush one coat onto the prepared surface with a stiff brush. Any subsequent topping needs to go on while this slurry coat is still wet — if it dries out first, brush on a fresh coat before proceeding.

B) As a Waterproof Coating

Wet the concrete to achieve an SSD condition, then mix 1 part JB-A125 to 2 parts OPC cement by volume. Brush two coats onto the damp, prepared surface, leaving a re-coat interval of 4–6 hours.

C) As a Brush Topping

After wetting the surface to SSD condition, mix 1 part JB-A125, 2 parts OPC cement and 2 parts fine silica sand by weight, and apply with a brush as a topping at 1.5mm thickness.

D) As a Patching Mortar

Combine 1 part JB-A125 with 2 parts OPC cement and 3 parts fine silica sand by weight, then use a mason's trowel to fill and level any voids or depressions.

E) As a Cement Paint Admixture

Blend 3–4 litres of JB-A125 into 50kg of cement paint until fully homogeneous, then brush on two coats with a re-coat interval of 2–4 hours. Adding JB-A125 this way extends the covering capacity of the cement paint.

CURING

Let the coating air dry for roughly 4–6 hours first. If conditions are hot, dry and windy, cover it with a polythene sheet during this time to stop it drying too fast. After the initial 6 hours, switch to moist curing for the next 24 hours by spraying or sprinkling with potable water — the coating should never be allowed to dry out completely, but also shouldn't be submerged in water.

CLEANING

Rinse hands, brushes, rollers and other tools with water while everything is still fresh — do this immediately after use. If cleaning gets delayed and material hardens, a coarse wire brush may be needed to remove it.

DISPOSAL & SPILLAGE

Soak up any spilt material using sand or another inert absorbent, then transfer it to a suitable container. Dispose of both the spillage and any empty packaging in line with local waste disposal regulations.

STORAGE, SHELF LIFE & SAFETY

Keep JB-A125 in its original, unopened packaging, off the ground, somewhere cool, dry and shielded from strong draughts. Stored this way, it stays usable for 12 months from the date of manufacture shown on the packaging.

Work in a well-ventilated space during mixing and application, and keep the material away from eyes, nose, mouth and unprotected skin — wearing protective gloves throughout is recommended, along with a barrier cream if needed. Wash hands thoroughly after finishing work or whenever it's paused, and take care when removing gloves not to contaminate the inside. If the material contacts the eyes, flush immediately with plenty of water and seek medical advice; for skin contact, wash immediately with plenty of soap and water. Seek medical attention in the event of any accident. Refer to the Material Safety Data Sheet for complete handling and first-aid information.

The information contained in this Technical Data Sheet is given in good faith based on BGSB Construction Products Ltd's current knowledge and experience of the product. Our policy is one of continuous research and development; we therefore reserve the right to update this information at any time without prior notice. As we have no control over site conditions or execution of the work, we accept no liability for any loss or damage arising as a result thereof.

Sold subject to the Company's Conditions of Sale, available on request.