

Duraproof SB40

Single part acrylic based cementitious waterproofing render for concrete and masonry

Description

Duraproof SB40 is a multifunctional polymerised acrylic polymer for enhancing properties of concrete, mortar, grout, cement slurry etc. through better bonding, waterproofing and improvement in several other properties. **Duraproof SB40** is used for permanently bonding plaster to ensure durable finish of exterior walls, bonding new concrete to old concrete, making mortar for repairing and for waterproofing. **Duraproof SB40** is highly durable in wet condition as well. It complies to BS 6319 Part 2,3 & 4

- Improves waterproofing properties when used as a coating mixed with cement.
- Contains no chloride.
- Provides excellent bond to concrete & masonry plaster.
- Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of structures.
- Improves bond strength, facilitating tough and hard wearing surface.
- Allows trapped vapour to escape thus preventing peeling / blistering.
- Reduces cracking through increased mortar flexural strength and reduced permeability.
- Increases mortar, wear resistance under rubber wheeled traffic and improves mortar tensile strength.

Fields of application

- Waterproofing of roofs, walls & water storage tank, toilet, sunken slabs, kitchen and balconies.
- Repairs of spalled concrete, floor columns, beams, Damp walls, slab etc.
- Bond coat for old to new concrete & masonry plaster.

- Priming of reinforced concrete.

Technical data

Appearance	Milky white
Solid content	40 ±2 %
Pot life	~45 mins (+20°C)
Chloride content	Nil
pH value	7.7
Compressive strength after 28 days: (EN 12190)	13 MPa
Adhesion strength to concrete: (EN 1542)	3.8 MPa

Directions to use

Substrate preparation

The substrate must be clean, free of oil or grease, loose material, dust, etc. Water leaks should be plugged with CEMFIX R ultra rapid-setting, cementitious leak-plugging mortar. Any cavities on concrete surface should be filled and smoothed out with FLEXCEM GP, FLEXCEM FR60 or a cement mortar improved with **Duraproof SB40**, after all loose aggregate has been removed and the surface has been well dampened.

Starter bars and spacers should be cut to a depth of about 3 cm into concrete and holes should be filled, as described above. Existing construction joints are opened longwise in a V shape to a depth of about 3 cm and are subsequently filled, as above.

Corners, like wall-floor junctions, should be filled and smoothly rounded with FLEXCEM GP or a cement mortar improved with **Duraproof SB40**



(formation of a fillet, triangular in cross section, with sides of 5-6 cm).

As a Waterproofing Compound

Mix **Duraproof SB40** with neat cement in the ratio of 1:2 till obtaining homogeneous, lump free mixture with better brushable consistency:

Apply **Duraproof SB40** slurry by brush on the surface. Apply two or more coats depending on the surface condition. Ensure time interval of 5 - 6 hr between two coats. slurry shouldn't be applied on standing water. After 6 hrs of air drying the coated surface should be cured by means of spraying water for next 24 hr. Do not leave coated surface dry during this period and not to allow the coated surface to be submerged under water during this period. Allow to dry for 24 hrs after moist curing.

As a Bonding Agent

Bond coat with a mixing ratio of 1:1 by weight of **Duraproof SB40** and cement. The applied bonding agent should be in tacky condition before topping with new concrete.

As a Repair Mortar

Modified repair Mortar with a mixing ratio of 1:2:5 **Duraproof SB40** : cement : sand with required amount of potable water. Apply in specified area and keep the surface moist for 12 - 24 hr after application.

Remarks

Provide 15 – 25 mm protective plaster / screed over the **Duraproof SB40** waterproofing coating.

Packaging

Available in, 4kg, 10 kg, 20 kg and 200 kg containers.

Shelf life

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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