



Cro Bond 65

Technical Data Sheet | Product ID 602

Multipurpose adhesive for mortar and concrete.

Multipurpose, water-resistant acrylic and SBR bonding agent and admixture for cementitious systems. Cro Bond 65 contains styrene-butadiene rubber (SBR) latex and pure acrylic polymer.

Characteristics

Cro Bond 65 is a versatile adhesive with a wide range of applications. It is a latex dispersion admixture based on styrene butadiene rubber and is used for improving the properties of cement mortar and concrete, specifically with regards to bond strength to different building materials, and impermeability to water.

Uses

Cro Bond 65 can be used as an admixture for the following applications:

Cement-based tile adhesive & tile grouts mortars.

Cement-based renders and spatter dash mortars (Taratasha).

Waterproof plaster for swimming pools, water and waste water tanks.

Bonding new concrete to old & concrete repair mortars.

Corrosion protection of steel reinforcement in concrete structures.

An admixture for producing bonding slurry for fresh-to-old concrete, cement plaster on smooth concrete and cement screed toppings on concrete floors.

An admixture for producing repair mortars, hard-wearing screed toppings, high-quality plaster and ceramic tile adhesives for floors and walls.

Diluted Cro Bond 65 can be used as a dustproof and surface hardener for concrete and cement plaster.

Advantages

Excellent resistance to water penetration.

Increases the bond strength of concrete and mortar to different building materials.

Improves abrasion resistance.

Excellent adhesion to steel reinforcement and cementitious substrates.

Reduces shrinkage and improves flexibility and durability.

Improves compressive, flexural and tensile strength.

Improves water resistance in cementitious systems.

Improves the impermeability of cement mortar and increases resistance to chemicals and salts when added in high dosage to get a waterproofing mortar.

Improves the workability and decreases the mixing water.

DISCLAIMER: While the company guarantees its products against defective materials, our recommendations are based on extensive research as well as practical experience. Results cannot be guaranteed where the actual application work is beyond our control. Customers must carry out their own investigations and test the suitability of our materials for their intended purposes. Kindly note that this data sheet supersedes any previous prints. For any additional information, please consult our technical marketing department.



Technical Data

Property	Value or conditions
Color	White
Solid content	48% ± 5% Approx.
Density	1.01 ± 0.01 kg/L
Diluents/ Thinner	Water
pH value	Approx. 7.5 ± 8
Specific Gravity	Approx. 1.0
Minimum film Formation temp	4 °C
Packing	900 g, 5 kg and 20 kg containers

Cro Bond 65 : clean water dilution ratios are by volume: 1:1, 1:2, 1:3, 1:4 and 1:5. A ratio of 1:5 means 1 liter of product to 5 liters of clean water.

Reference performance values after 28 days. Product testing is required to verify these values for CroChem.

Properties	1:5	1:4	1:3	1:2	1:1
Compressive strength (kg/cm ²)	168	199	238	292	301
Tensile strength (kg/cm ²)	12	15	18	23	28
Bending strength (kg/cm ²)	28	39	46	55	59
Abrasion resistance % loss	4.2	3.4	3.1	1.9	1.5
% water absorption	9.65	8.75	6.52	3.56	2.22
Chemical resistance 5% H ₂ SO ₄	8	5	4.7	3.95	2.5

Typical reference values, pending verification by CroChem testing.

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Surface Preparation

Substrates to receive Cro Bond 65 should be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. Remove all laitance and loose materials using suitable tools. Reinforcing steel must be free from grease, oil and rust. Pre-wet cement-based substrates prior to application, without leaving excess water.

Application Procedures

Tile adhesives

Cro Bond 65 can be used with Cro Fix range of products for some specific applications. In this case the recommended dosage is 1.5 liter/25 kg bag. The total amount of water that should be added to each bag should be reduced to compensate the addition of Cro Bond 65. Also, Cro Bond 65 can be used with cement-based traditional mortar for fixing ceramic tiles. In this case, use Cro Bond 65 diluted with water at 1:1 to 1:4 ratio.

Tile Grouts

Cro Bond 65 can be used with Cro Grout G13 and jobsite mix cement-based tiles grout to produce waterproof tiles grouts for floors and walls. In this case use Cro Bond 65 diluted with water at 1:4 mixing ratio.

Bonding Agent

Mix approximately one part of Cro Bond 65 + one part of water + 2-3 parts of cement to a lump-free slurry consistency. Apply the mix to the prepared substrate using stiff brush without leaving any pinholes on the substrate. The following mortar layer must be applied while the slurry coat is still wet.

(Coverage is approximately 5 - 7 m²/liter of Cro Bond 65 depending on surface condition).

Polymer Modified Mortars

Mix Cro Bond 65 with water at mixing ratio 1:1–1:4. Mix the dry component of the cement-based mortar using well-graded sharp sand and the required quantity of OPC. Add the powder mix to the diluted mixture of Cro Bond 65 slowly while mixing. Keep mixing for three minutes and keep the mortar as stiff as possible. Apply the mortar by trowel or other suitable application tools in layers not more than 6 mm thickness per layer. If the thickness is more than 6 mm, apply several coats wet on wet until you reach the required thickness.

Curing

Moisture curing is recommended for 24 hours then allow to dry slowly.

Storage

Shelf life is 12 months from the manufacturing date when stored in a dry, covered area.

Health and Safety precautions

Wear gloves and goggles.

Wash skin and face contamination with soap and water. Rinse accidental eye splashes with clean water and seek specialist advice. Do not eat or smoke during use.