



PRO BOND

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Premium Acrylic Concrete Bonding Agent & Cement Modifier

Product Description:

Hydrobloc Pro Bond is a high-performance, concentrated polymer bonding agent designed for use with cement and sand to produce high-adhesion bonding slurries, polymer-modified repair mortars, screeds and cementitious renders. Its concentrated formulation allows dilution and polymer dosage to be adjusted according to the application and required bond performance.

Key Features & Benefits:

- Excellent adhesion to concrete and cementitious substrates
- Suitable for old-to-new concrete bonding
- Improves adhesion and durability of cementitious mortars
- Reduces water permeability and surface dusting
- Improves flexibility and resistance to shrinkage cracking
- Suitable for interior and exterior applications
- One-component, easy-to-use liquid
- Adjustable dilution for different applications

Areas of Application:

Hydrobloc Pro Bond is suitable for:

- Concrete-to-concrete bonding
- Concrete repair and patching
- Bonding bridges for screeds and toppings
- Cementitious renders and plaster
- Polymer-modified repair mortars
- Cementitious waterproofing slurries
- Improving adhesion of cement-based materials

Surface Preparation:

The substrate must be:

- Sound and structurally stable
- Clean and free from dust, laitance, oil, grease and curing compounds
- Free from loose or friable concrete
- Mechanically roughened where required, particularly for smooth concrete surfaces

For cementitious bonding applications, dampen the substrate to **SSD (Saturated Surface Dry)** condition.

Remove all standing water before application.

For very porous or highly absorbent substrates, pre-dampen the surface adequately before application.



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Mixing Instructions:

Concrete Bonding Slurry — General Purpose

Recommended starting mix:

- Hydrobloc Pro Bond: 1 part
- Clean water: 2 parts
- Cement: 1 part
- Fine silica sand: 1 part

Mix Pro Bond and water first. Slowly add cement and sand while mixing until a smooth, brushable slurry is obtained.

Heavy-Duty Bonding

Recommended starting mix:

- Hydrobloc Pro Bond: 1 part
- Clean water: 1 part
- Cement: 1 part
- Fine silica sand: 1 part

Apply by stiff brush and work thoroughly into the prepared substrate.

Polymer-Modified Repair Mortar

Prepare a polymer gauging liquid using:

- Hydrobloc Pro Bond: 1 part
- Water: 2–3 parts

Use this liquid to prepare the cement/sand repair mortar.

Typical starting mortar proportion:

- Cement: 1 part
- Graded sand: 2.5–3 parts

Adjust consistency using the prepared polymer gauging liquid. Do not add excessive water.

Cement Plaster / Render

Prepare a polymer gauging liquid using:

- Hydrobloc Pro Bond: 1 part
- Water: 3–4 parts

Use as the mixing liquid for the cement/sand render.

Typical starting mix:

- Cement: 1 part
- Sand: 3–4 parts

Adjust aggregate grading and consistency according to the required application.

General Mixing Procedure

- Add the required quantity of water to a clean mixing container.
- Add Hydrobloc Pro Bond and mix gently.
- Gradually add cement and/or sand while continuously mixing.
- Mix until a uniform, lump-free consistency is obtained.
- Avoid excessive high-speed mixing and air entrainment.
- Use the prepared material within its practical working time.



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Application Guidelines:

Bonding Slurry

Apply the prepared bonding slurry to the prepared concrete substrate at approximately **1–2 mm wet thickness** using a suitable brush.

For heavy-duty bonding, work the slurry thoroughly into the substrate using a stiff brush.

Critical application requirement: Do not allow the bonding slurry to dry before placing the subsequent cementitious material.

The fresh mortar, screed or concrete must be applied while the bonding coat remains **wet/tacky** to achieve maximum interfacial adhesion.

Coverage / Consumption:

Typical bonding slurry coverage: Approximately 1.5–2.5 kg/m²

Actual consumption depends on substrate profile, porosity and application thickness.

Curing & Protection:

Protect fresh applications from:

- Rain and water exposure
- Rapid drying
- Extreme temperatures
- Frost and excessive heat

Do not allow the bonding coat to dry before applying the subsequent cementitious material.

Packaging:

Available in:

- 6 kg
- 25 kg

Storage & Shelf Life:

Store in the original, tightly closed container in a cool, dry and shaded location. Protect from frost, excessive heat and direct sunlight. Do not expose the product to temperatures above 40°C.

Life: 12 months in unopened original packaging when stored under recommended conditions

Health & Safety:

- Avoid contact with skin and eyes.
- Wear suitable protective gloves, eye protection and protective clothing during handling and application.
- Avoid unnecessary inhalation of mist or material during mixing and application.
- Do not apply onto frozen or unstable substrates.
- Do not use where standing water is present.
- Do not dilute the product excessively.
- Refer to the product SDS for detailed safety and handling information.



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Technical Data:

Property	Typical Value
Product Type	Concentrated acrylic polymer bonding agent
Polymer Type	Styrene-acrylic dispersion
Appearance	Milky white liquid
Density	Approx. 1.0–1.05 kg/L*
pH	Approx. 7–9*
Application Temperature	+5°C to +40°C
Typical Bonding Slurry Coverage	Approx. 1.5–2.5 kg/m ²
Typical Bonding Slurry Thickness	Approx. 1–2 mm wet
Packaging	6 kg, 25 kg
Shelf Life	12 months in unopened original packaging