

StrucoBond GP

Acrylic emulsion bonding agent for concrete and cement

Description

StrucoBond GP is a acrylic polymer emulsion bonding agent. This milky white liquid is non-yellowing in Portland cement mortars and concrete and gives excellent waterproofing characteristics. When used as an admixture, **StrucoBond GP** provides increased abrasion, impact and crack resistance, flexural strength, and freeze/thaw tolerance. Permeability is also reduced, providing added protection from chloride intrusion and scaling. **StrucoBond GP** when used to make a slurry bond coat enhances the bond between the existing concrete and placement of the fresh cement-based concrete topping or repair mortar.

Fields of application

Since **StrucoBond GP** will not re-emulsify, concrete repairs/mortars fortified with **StrucoBond GP** are ideal for interior, exterior, and moisture-related applications. Typical areas that would benefit from properties of this product include concrete, toppings, mortars, grouts, and vertical, horizontal, and overhead patching. For enhanced bonding and waterproofing, use **StrucoBond GP** as an additive in slurry bond coats.

Technical data

Form:	Liquid acrylic emulsion
Typical Density	1.06 kg/cm ³
Solid Content	40 ±2 %
pH Value	10
Water Resistant	High
Bond Strength (Slurry bond coat)	≥ 2.0 MPa

Direction to use

Substrate Preparation

Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Sanding, grinding, wire-abrading, or similar are not approved surface preparation methods. Substrate must be brought to a fully saturated, surface dry (SSD) condition and free of standing water. (concrete) through a bonding layer.

As an admixture

Typically, blend one part cement to three parts sand, then add enough **StrucoBond GP** until a desired consistency is achieved. To avoid trapping air, do not over mix. Place modified mortar/repair material and finish appropriately, careful not to overwork the material. For ready-mixed applications, add 4-12 litres of **StrucoBond GP** per 50kg of cement in the ready-mixed concrete. Remove equal parts water to the amount of **StrucoBond GP** added to avoid over-watering the Ready-mixed concrete. Over-watering the concrete will reduce the physical properties and longevity of the cement-based material. Once the finishing process is completed, immediately cure work.

As a slurry bond coat

Mix one part cement to two parts sand, then add enough undiluted **StrucoBond GP** to make a slurry consistency. Apply slurry into the properly prepared, SSD concrete substrate with a stiff masonry brush, coating the entire area, paying special attention to the corners, sides and any exposed rebar.



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Place concrete or mortar material prior to the **StrucoBond GP** slurry bond coat becoming tack-free, usually 30 minutes at 24°C). High temperatures, direct sun, or windy conditions will shorten tack-free time.

As a bonding enhancer (neat) / Primer

StrucoBond GP used neat will generally enhance the bond. Apply **StrucoBond GP** undiluted by brush, roller or garden-type sprayer on to the properly prepared surface at rate of 2-4 m²/l. depending on porosity. Place concrete or mortar before **StrucoBond GP** surface dries, usually 10-15 minutes. If **StrucoBond GP** dries, it will interfere and reduce the bond strength of the material which is going to be applied. If the **StrucoBond GP** dries, reapply making sure that the surface of first application has not been contaminated.

Packaging

StrucoBond GP is supplied in 4L, 10L, 20L, 50L and 200L containers

Shelf life & storage

12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sun exposure 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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