

Bonding agent and admixture for the preparation of polymer-modified mortar and concrete

AREA OF USE

Cementol Lateks SB is an aqueous dispersion of synthetic rubber based on styrene-butadiene which is added to cementitious mortar or concrete to achieve:

- Greatly improved adhesion of fresh mortar/concrete to already hardened concrete or mortar,
- Significant improvement in mechanical properties (higher flexural and compressive strength, improved abrasion resistance, improved impermeability to water),
- Significant improvement in chemical resistance of hardened concrete or mortar (action of corrosive salts, dilute aqueous solutions of acids and alkalis, oils, and gasoline),
- Improved workability.

Due to the stated properties it is used for the preparation of:

- polymer-modified mortars and concretes resistant to increased mechanical, physical and chemical stresses,
- repair mortars,
- adhesive mortars,
- bonding bridges between hardened (old) and fresh concrete or mortar.

TECHNICAL CHARACTERISTICS

Characteristic	Declared value
Appearance	Milky-white liquid
Density, 20 °C	approx. 1 kg/L
pH	9.0 ± 0.5

ACTION

The polymer molecules are deposited on the surface of the cement particles during hydration and aggregate to form a continuous film after hydration is complete. The resulting polymer network interweaves the hardened cement gel and connects the aggregate and cement paste. This improves the quality of the hardened cement paste as well as the contact between the cement paste and the aggregate grains.

CONSUPTION AND INSTRUCTIONS FOR USE

Preparation of liquid

Cementol Lateks SB is mixed into water-diluted concrete or mortar, with the dilution rate determined by the complexity of the work performed and varying within the limits of:

Cementol Lateks SB : water = 1 : 1 to 1 : 4 [parts by weight or by volume]

Note:

In case the mortar/concrete will be exposed to frost and deicing salts, we recommend dilution with water in a ratio of 1 : 1.

Preparation of concrete/mortar

Prepare only the amount of concrete/mortar that can be used immediately.

The liquid of diluted Cementol Lateks SB and water is dosed in such a way that it allows the preparation of suitable or desired workability concrete/mortar.

Substrate preparation

Concrete/mortar containing Cementol Lateks SB is applied to a pre-prepared substrate:

The substrate must be clean, firm and moistened. Remove all impurities, dust, old paints, greases, and poorly bonded parts first.

It is best to soak the substrate thoroughly with water the day before you begin working, and then remove any excess [standing] water just before you begin, so that the surface is "matte" moist.

Installation and curing

We respect the principles of good practice when concreting/installing and curing for fresh concrete. Freshly installed concrete/mortar must be protected from excessive drying [wind, drafts, sun] with damp tarpaulins, foils, or curing agents Kontrasol 22 V or Kontrasol NOVl. In winter conditions, however, we must take care of frost protection.

Cleaning of work accessories

The mixer, containers, and tools must be washed with water as soon as the work is finished.

Consumption

approx. 0.30 – 0.35 kg/m² for a bonding layer of approx. 5 mm thickness

When designing a concrete mixture, we respect the requirements and principles of the EN 206 standard: Concrete - specification, performance, production and conformity, as well as the relevant national provisions.

PACKAGING

drums 50 kg, IBC containers 1 m³

STORAGE

- The product should be stored at temperatures between +5 °C and +35 °C. We need to protect it from damage, freezing and direct sunlight.
- A properly stored product has a shelf life of at least 2 years after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

HEALTH, SAFETY AND ECOLOGY

No special measures are required when working with Cementol Lateks SB. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing work, wash hands thoroughly with water.

More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to specific conditions and work methods, preliminary tests are advised for every type of use, for each individual case of use of the product alone, or in combination with other admixtures.

Since we cannot influence the course of work, we cannot be held responsible for its quality!



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