

# CHEMIKO GUARD SBR LATEX

SBR based multipurpose bonding agent for repair and waterproofing

1/1/2 017



## DESCRIPTION

CHEMIKO GUARD SBR LATEX is a superior modified styrene butadiene emulsion to be mixed with cement slurry, cement mortar, concrete or cementitious grout for improved adhesion and water resistance properties. It is fully soluble in water and is added directly to the gauging water of slurry, mortar, concrete or grout.

## ADVANTAGES/CHARACTERISTICS

- High - Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- Improves - Gives weather resistant mortar with improved durability impermeability to chlorides and other harmful agents.
- Reduces - Provides waterproof screeds, plasters and Permeability slurries.
- Increases - Improved tensile and flexural properties strength allow thin applications.
- Versatile - Compatible with all common hydraulic cements.
- CHEMIKO GUARD SBR LATEX is bonds strongly to old & new concrete and to plasters and used for repair of spalled concrete.
- Dilute with water up to 6 times depending on the type of application
- Mixes may be applied in much thinner sections

## FIELD OF APPLICATION/USES

- Modifying and improving bonding of floor toppings, renderings and mortars.
- Repair of worn, damaged and spalled concrete.
- Repair of large cracks.
- Polymer modified floor screeds.
- Waterproof plasters for masonry and slurries.

## TECHNICAL DATA

| Properties           | Requirement                             |
|----------------------|---|
| Compressive strength | 35 N/mm <sup>2</sup>                    |
| Specific gravity     | 1.03+/- 0.02                            |
| Chemical resistance  | Resists mild acids, alkalies, sulphates |
| pH                   | Between 7 to 9                          |
| Bond strength        | 30 N/mm <sup>2</sup>                    |
| Appearance           | White Milky                             |
| Tensile strength     | 3.3 N/mm <sup>2</sup>                   |
| Flexural strength    | 11+/- 2 N/mm <sup>2</sup>               |
| Mixing with water    | 1:1 by volume                           |

## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

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## APPLICATION INSTRUCTIONS

**Surface Preparation:** If using this product as a cementitious bond coat, the base concrete must be a minimum of 3 days old. The concrete must be clean and all oil, dirt, debris, paint, curing compounds, sealers and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bush hammer, shotblaster or scarified, so that the minimum surface profile is 3mm and exposes the large aggregate of the concrete.

Note: Acid etching is not acceptable. Finally, clean the concrete of all residue with a vacuum cleaner and/or pressure washer. Allow the concrete surface to begin drying, and do not place the cementitious bond coat on standing water. Base concrete must be saturated-surface dry (SSD) to reduce moisture loss.

**Bonding:** For bonding toppings with this product, strongly recommends using a cement bond coat rather than using this product as a primer by itself. After the surface has been prepared, prime all areas with a bond coat before the topping is applied. Follow mixing and placing instructions listed below. Place the topping on the bond coat before the bond coat dries out.

**Mixing:** Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 50C to 320C. Add the appropriate amount of CHEMIKO GUARD SBR LATEX for the batch size and then add the dry material. If using CHEMIKO GUARD SBR LATEX with a pre-packaged product, reduce the amount of water added to compensate for the latex addition. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately. Placement: Discharge material onto the floor.

**Bond Coat Application:** Spread the bond coat with a stiff bristle broom until the suggested coverage rate is achieved.

**Topping Application:** For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand trowelling. On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

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**Finishing:** Finish the repair material to the desired texture. Typical texture is a broom or sponge float finish.

Do not add additional water to the surface during the finishing operation. If additional liquid is required, use finishing acid.

**Curing:** Proper curing procedures are important to ensure the durability and quality of the repair or overpayment.

To prevent surface cracking, a moist cure should be maintained for 24 hours followed by use of a curing compound such as CHEMIKO CURE AC Do not use a solvent based curing compound on latex modified mortars.

## HEALTH & SAFETY

- Cementitious mortars & slurries modified with CHEMIKO GUARD SBR LATEX when mixed or when become damp, may release alkali which can be harmful to skin & eye.
- Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment during application.
- In case of contact with skin, with eyes, rinse with plenty of clean water and then cleanse with soap water.

## STORAGE AND SHELF LIFE

- Shelf life is 12 months from the date of manufacturing.
- Store in a cool & dry place in unopened condition (Prevent from direct sunlight).

## AVAILABLE PACKING: 1KG, 5KG, 10KG, 20KG & 50KG

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