



CHEMAX SBR 44

Mortar and Screed Modifier cum bonding aid & Economical Waterproofing



DESCRIPTION:

For 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.

ADVANTAGES:

1. Simple to use
2. High Adhesion
3. Improves Durability
4. Reduces permeability
5. Increases Strength
6. Versatile
7. Cost Effective

PACKAGING:

250 ml, 500 ml, 1 Ltr,
5 ltr, 20 ltr, 50 ltr, 200 ltr



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Description:

- **CHEMAX SBR 44** is modified styrene butadiene rubber emulsion specially designed for use as a bonding aid and gauging liquid for cementations systems. It is resistant to hydrolysis and can therefore be used for external applications too. It is used for repair of spalled concrete – floors, columns, beams, chhajjas, slabs. Waterproofing of toilets & bathrooms, small terraces etc. It bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance.

Uses:

- For modifying and improving bonding of floor toppings, renderings and mortars; repair of worn, damaged and spelled concrete, repair of large cracks; polymer modified floor screeds; waterproof plasters for masonry and slurries.

Areas of Application :

- **For concrete repairs** - Spalled concrete of floors, columns, beams, chhajjas, slabs, parapets, etc.
- **For waterproofing** – Small roof terraces, sunken portions of toilets & bathrooms, chhajjas & lift pits, balconies & staircases.
- **For waterproofing** – Liquid & effluent tanks, car decks & walkways.
- **As a bonding agent** – Bonding mortar for tiles & panels, as undercoat for special finishes such as top rendering coat for chemical resistant floors.
- **As a bond coat** – For bonding of new concrete to old concrete, masonry stone work, plastering.
- **For cladding** – Fixing or re-fixing of slip bricks, tiles, stones & marble bedding.
- **As external rendering** – Weatherproof & frost resistant render, high wear & erosion resistant render. As bonding slurry coat for pinhole treatment on concrete surface & as repair mortar for overhead application.

Advantages:

- **Simple to use** - Single component, gauged as required.
- **Multipurpose** – It is multipurpose & economical product, easy to use.
- **Bonding** – Bond strongly to concrete, masonry, stonework, plasters, cementitious surfaces, asphalt & most of the building materials. Improves durability -Gives weather resistant mortar with improved impermeability to chlorides and other harmful agents.
- **Reduces permeability**- Provides waterproof screeds, plasters and permeability slurries.
- **Increases strength** - Improved tensile and flexural properties allow thin applications.
- **Versatile** - Compatible with all common hydraulic cements.

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Application instructions:**Surface Preparation :**

- Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.
- Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scabbling or grit blasting.
- Expose corroded rebar in the repairing area fully . Remove all loose scales & corrosion deposits and immediately clean the surface.

Priming:

- Reinforcing steel must be primed with **CHEMAX** Primer immediately after cleaning. The concrete substrate should be thoroughly dampened with water and any excess water removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume **CHEMAX SBR 44** to 1 volume water to 3 volumes fresh cement.
- In order to obtain a smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement. Avoid 'puddling' of the slurry coat. The topping must be applied on to the wet slurry. If the slurry dries out it must be removed and the clean substrate reprimed.

Typical Mix designs:**1. Patching and repair mortars and plaster for masonry**

Cement	50 kg
Zone II sand	150 kg
CHEMAXSBR 44	5 - 9 liters
Recommended water addition	11 - 15 liters
Recommended thickness	8 to 30mm

2. Heavy duty floor screeds

Cement	50 kg
3-6mm Granite chips	75 kg
Zone II sand	75 kg
CHEMAXSBR 44	5-9 liters
Recommended water addition	8-12 liters
Recommended thickness	10-25mm

- The screed should be of a semi-dry cohesive consistency.

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Properties :

- **Specific gravity** 1.02 to 1.03g/cc
- Typical mechanical properties of 1:3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing **CHEMAX SBR 44** (5 liters / 50 kg cement). Tested in accordance with BS 6319 & wet cured.

Mechanical properties	Control	CHEMAXSBR44
Compressive strength (N/mm²)		
3 days	11.5	12.5
7 days	13.0	14.5
28 days	22.0	24.0
Tensile strength (N/mm²) @ 28 days	2.5	3.5
Flexural strength (N/mm²) @ 28 days	5.0	6.5

Note: Increased dosages of **CHEMAX SBR 44** and further water reduction leads to improved Mechanical properties.

- **Chemical resistance:** Cementations based materials have limited chemical resistance. The addition of **CHEMAX SBR 44** to cement mortars reduces permeability and therefore helps reduce the rate of attack by aggressive chemicals.

Product Data:

Appearance/Colours : White or Grey Powder

ph	: 8 - 9
Pot life @ 30 c	: 30-45 min at 30 c
Chemical resistance to mild acids, alkalies, sulphates	: Resists
Freeze thaw resistance	: Excellent



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Packaging:

- CHEMAX SBR 44 is supplied in 250ml, 500 ml, 1, 5, 20, 50,200 liter containers.

Coverage:

- Slurry primer - approximately 4- 5 m²/liter depending on substrate porosity.

Storage:

- Storage in must be room temperature (20c to 42c)

Shelf life:

- CHEMAX SBR 44 has a shelf life of 12 months if kept in a dry store in unopened condition.

Precautions

Health & Safety instructions :

- CHEMAX SBR 44 should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn during handling the product.
- If contact with skin occurs, wash well with soap and water.
- Eye contamination should be washed thoroughly with clean water and medical advice sought.
- If swallowed seek medical attention immediately - Do not induce vomiting.

Fire:

- CHEMAX SBR 44 is non flammable.