



# HYDROBUILD SBR LATEX

## Styrene Butadiene Rubber Latex Emulsion For Bonding

Dubond's Hydrobuild SBR Latex is modified Styrene butadiene Rubber emulsion specially designed for use as a bonding agent. It is suitable as an admixture for obtaining waterproof concrete, plasters and mortars it is also suitable for preparation of repair mortars. Damaged and spalled concrete repair of large cracks.

### Green Building Rating



Low?Emission



Solvent?<?5?g/kg



Low?Ecological?Impact



Health?Care



Water?Based

### Areas of Application

- Concrete repair and adhesive mortar, screed.
- Roof Finishing.
- Rendering and coating.
- To be used as bonding agent for old concrete to new concrete.
- As a Bond coat before commencement of repair work.

### Features & Benefits

- Single component, gauged as required.
- Simple to use.
- Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- Provides waterproof screeds, plasters.
- Improved tensile and flexural properties strength allows thin applications.
- Compatible with all common hydraulic cements.
- Economical to use.
- Gives weather resistant mortar with improved durability impermeability to chlorides and other harmful agents.

### Method of Application

#### Surface Preparation

The base must be clean and free from loose particles. Unsound areas should be removed until sound concrete is located. Any cracks, pot holes etc should be properly sealed and cured. The surface to be treated should be free from all coatings dust and unsound concrete toppings. The unsound parts should be chipped off to arrive at sound surface. Smooth substrates must be mechanically roughened e.g. by scrubbing, needle gun or grit blasting to provide an adequate key. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferably to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting, or Dubond Rust Remover / Dubond ZRP is recommended.



## Priming

Reinforcing steel must be primed with Dubond ZRP immediately after cleaning with water. The concrete substrate should be thoroughly dampened with water and any excess removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume Hydrobuild SBR Latex 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 Hydrobuild SBR Latex Cement Mortar and screed modifier cum bonding agent to offset settlement.

Avoid 'peddling' 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 re primed.

## Application

### For patching and repair mortars and plaster for masonry :

- 50 Kgs- cement
- 145 Kgs – Zone II sand
- 10 Kgs – Hydrobuild SBR Latex
- 10 - 13 liter – Recommended water
- 10 mm - 30 mm – recommended thickness

Mix the total mass till proper mixing of Hydrobuild SBR Latex with a proper consistency is achieved.

### For Heavy duty floor screeds :

- Cement - 50 kg
- 4 mm Granite chips : 75 kg
- Zone II sand : 75 kg
- Hydrobuild SBR Latex : 10 Kgs
- Recommended Water addition 6-10 liters
- Recommended Thickness: 12mm - 24 mm

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

## Cleaning

Tools and equipment should be washed with water immediately after use.

## Precautions & Limitations

- Prepare surfaces thoroughly. Toe-in at edges wherever possible to avoid feather edging.
- All surfaces including edges must be primed.
- All applications should be wet on wet; the primer must not be allowed to dry.
- The level of added water in the mix designs may need adjusting to achieve the required consistency. In general water content should be kept to the minimum necessary.
- For consistent performance the use of clean, dry river sand is recommended. Where wet sand is used, reduce the added water level as appropriate.
- In order to prevent rapid drying, mortars should be properly cured curing compound, cur
- Protect uncured mortar from frost.
- Do not retemper mortar or primer after initial set.
- Minimum application temperature is 10°C.

## Technical Information

Base	Modified SBR emulsion
Color	Milky White
Specific Gravity	Approx. 1.02 gm/cc
Solid Contents	30 %
pH Value	10.5 – 11.5
Viscosity	120 Mpa
Specific Gravity	app. 1.00
Surface Tension	app 50 mN/m
Glass transition Temperature	-6 °C / 21.2 °F
Minimum film form temperature	0 °C / 32 ° F
Breaking Load	4.0 N / mm <sup>2</sup>
Properties	Typical mechanical properties of 1 : 3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing Hydrobuild SBR Latex (10 liters / 50 kg cement). Tested in accordance with BS 6319 & wet cured.
<b>Mechanical Properties</b>	
Compressive Strength (kg/cm <sup>2</sup> )	
3 days	115 - 125
7 days	130 - 145
28 days	200 - 220
Tensile Strength (N/mm <sup>2</sup> ) @ 28 days	25 - 32
Flexural Strength (N/mm <sup>2</sup> ) @ 28 days	40 - 50

**Note:** Increased dosages of HYDROBUILD SBR LATEX and with further water reduction leads to improved mechanical properties.

## Packing

500 ml, 1 ltr, 5 ltr & 20 ltr container.

## Shelf Life & Storage

12 months if sealed packing and if stored in cool dry place in shaded area.

## Health & Safety Instructions

Hydrobuild SBR Latex should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn. Hydrobuild SBR Latex should not come in contact with skin and eyes or be swallowed. 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.



### Dubond Products (India) Pvt. Ltd.

C-3, 1001, Anushruti Tower, S.G. Highway, Thaltej,  
Ahmedabad-380054. Gujarat - INDIA  
Ph: 91-79-2685 6815 Fax: 91-79-2685 6816  
Email: info@dubond.in Website: www.dubond.in

**Customer Care : +91 9377177771**

**DISCLAIMER** Whilst any information contained herein is true, accurate and represents our best knowledge and experience which is given in good faith. The company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user of the data contained therein. It is the user's responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No warranty / guarantee of result is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control & thus the company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.