Nitobond® SBR(Latex)

Mortar and Screed modifier cum bonding aid

**Uses**

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**

- **Simple to use** - Single component, gauged as required.
- **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.
- **Cost effective** - Nitobond SBR (Latex) is economical to use.

**Description**

Nitobond SBR(Latex) is modified styrene butadiene emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications too.

**Technical Support**

Fosroc provides a technical advisory service supported by a team of specialists in the field.

**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 Nitobond SBR (Latex) ( 5 liters / 50 kg cement ). Tested in accordance with BS 6319 & wet cured.

<table>
<thead>
<tr>
<th>Mechanical properties</th>
<th>Control</th>
<th>Nitobond SBR (Latex)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength (N/mm²) @ 28 days</td>
<td>11.5</td>
<td>12.5</td>
</tr>
<tr>
<td>Tensile strength (N/mm²) @ 28 days</td>
<td>13.0</td>
<td>14.5</td>
</tr>
<tr>
<td>Flexural strength (N/mm²) @ 28 days</td>
<td>22.0</td>
<td>24.0</td>
</tr>
</tbody>
</table>

**Note**: Increased dosages of Nitobond SBR (Latex) and further water reduction leads to improved mechanical properties.

**Chemical resistance**:

Cementitious based materials have limited chemical resistance. The addition of Nitobond SBR (Latex) to cement mortars reduces permeability and therefore helps reduce the rate of attack by aggressive chemicals.

**Application instructions**

**Surface Preparation:**

The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Laitence should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scabbling, 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 preferable to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

**Priming**

Reinforcing steel must be primed with Nitozinc Primer immediately after cleaning. 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 Nitobond 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 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement</td>
<td>50 kg</td>
</tr>
<tr>
<td>Zone II sand</td>
<td>150 kg</td>
</tr>
<tr>
<td>Nitobond SBR (Latex)</td>
<td>5 - 9 litres</td>
</tr>
<tr>
<td>Recommended water addition</td>
<td>11 - 15 litres</td>
</tr>
<tr>
<td>Recommended thickness</td>
<td>8 to 30mm</td>
</tr>
</tbody>
</table>

2. Heavy duty floor screeds

<table>
<thead>
<tr>
<th>Material</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement</td>
<td>50 kg</td>
</tr>
<tr>
<td>3-6mm Granite chips</td>
<td>75 kg</td>
</tr>
<tr>
<td>Zone II sand</td>
<td>75 kg</td>
</tr>
<tr>
<td>Nitobond SBR (Latex)</td>
<td>5-9 litres</td>
</tr>
<tr>
<td>Recommended water addition</td>
<td>8-12 litres</td>
</tr>
<tr>
<td>Recommended thickness</td>
<td>10-25mm</td>
</tr>
</tbody>
</table>

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

Cleaning

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

Additional Guidance

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 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 with Concure WB, curing compound.

Protect uncured mortar from frost.

Do not retemper mortar or primer after initial set.

Minimum application temperature is 10°C. For permanently immersed conditions consult Local Fosroc office.

Estimating

Packaging

Nitobond SBR (Latex) is supplied in 1, 5 and 20 litre containers.

Coverage

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

Storage

Shelf life

Nitobond SBR (Latex) has a shelf life of 12 months if kept in a dry store in unopened condition.

Precautions

Health & Safety instructions

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

Nitobond 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.

Fire

Nitobond SBR (Latex) is non flammable.
Nitobond® SBR (Latex)

Additional information

Nitobond SBR (Latex) is part of a wide range of adhesives, repair mortars, sealing compounds and flooring products specially designed and manufactured by Fosroc for the construction industry. Separate datasheets are available on all these products.
Important note:

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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