

DESCRIPTION

SHIELDLATEX SBR 50® is a modified Styrene Butadiene Rubberized emulsion to be mixed with cement compositions for adhesion and water proofing properties, bonding agent between old and new concrete in addition to priming for non-solvent base waterproofing applications.

USES

SHIELDLATEX SBR 50® primary uses:

- ☐ Concrete repair
- ☐ Bonding slurry
- ☐ Waterproofing renders
- ☐ Masonry mortars
- ☐ Waterproofing and Tanking
- ☐ Tile fix Mortars

ADVANTAGES

- ☐ Excellent Adhesion to concrete and Steel
- ☐ Improved Flexibility
- ☐ Reduces Shrinkage
- ☐ Excellent water resistance
- ☐ Increases Durability and toughness
- ☐ Does not re-emulsify
- ☐ Prolonged corrosion protection
- ☐ Bonding agent for water treatment plants and sewage systems
- ☐ Bonding agent for New and old concrete
- ☐ Excellent bonding for priming stage between waterproof and concrete substrates
- ☐ Non-toxic
- ☐ Low "Volatile Organic Compound" VOC

MATERIAL DATA

Type	Styrene Butadiene Rubberized Emulsion
Form	Liquid White
Packing	5Kg, 20Kg & 180Kg packs
Specific Gravity	1.02 ± 0.05
Solid Content	~50±10%
Pull off Strength	>1.0N/mm ² (BS 1881:2007)
UV Resistant	Excellent (ASTM G 53)
Flexural Strength	>10.0 N/mm ²
Compressive Strength	>40.0 N/mm ²
Storage Condition	12 month in unopened packaging, between 5°C and 35°C

APPLICATION DETAILS

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. Absorbent cement-based surfaces should be thoroughly saturated with water to achieve surface saturated dry condition.

Application

Rendering:

Mixing Ratio

5 Ltr SHIELDLATEX SBR 50 + 15 ltr water + 50 kg cement

Application:

Add the Cement to the Latex and mix well using a slow speed Mixer to achieve and even and creamy paste. Apply the paste on the pre-wetted substrate at a thickness of 1-2 mm.

For Extreme conditions and where adhesion, waterproofing, water vapor and chemical resistance are highly required, the Mixing ratio for **SHIELDLATEX SBR 50®** should be increased to 10 Ltr and the water Mix should be decreased to 10 ltr.

Priming:

SHIELDLATEX SBR 50® can be applied as a primer, prior to any non-solvent base waterproofing system. Its characteristics will increase the bonding capability of the water proofing system, in addition to increasing the water tightness of the full system, allowing for enhanced surface.

Bonding Agent:

Apply SHIELDLATEX SBR 50® at a rate of 4m²/ltr over the old concrete and then pour the fresh concrete 5-10min after achieving a Tacky finish.

Mixing Ration and application

- ☐ For each 20 ltr **SHIELDLATEX SBR 50®** add 2-3 ltr water maximum
- ☐ Apply 0.5-0.7 ltr of the mix over the concrete surface using brush or Roll
- ☐ Allow for 15 min drying period prior to applying the waterproofing system

Note:

1. If the surface is suspected to have been applied for over 24 hours, a recoating should be commenced prior to the waterproofing system's application.
2. If the coated area should high absorption by the concrete, a recoating should be commenced to achieve a uniform visual surface.

Limitations

SHIELDLATEX SBR 50® should be considered in these Limitations and avoid the following:

- ☐ Should be always mixed with Cement to be considered as a bonding agent
- ☐ Avoid premature drying by following the standard curing Method
- ☐ Pre-wetting substrate prior to application and re-coating
- ☐ For permanently water structures (pools, water tanks ...etc) allow for 1 week curing period

SAFETY

Protection Measures

SHIELDLATEX SBR 50® is Styrene Butadiene Rubber and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- ☐ Splashes to skin must be washed off with water and Soap
- ☐ Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

Toxicity

Non-Toxic Material

Transportation

Non-Hazardous Material

Environmentally

Do not dispose into water or soil, kindly refer to Local regulations and procedures

Important Notice:

The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.