

SBR BOND

MULTIPURPOSE BONDING ADDITIVE FOR CEMENT BASED MORTARS

APPLICATION

SBR Bond is a Styrene Butadiene Copolymer Latex which is specially modified to be compatible with cement based mixes. It provides floors and renders with high abrasion resistance, assists in patching and bonding onto backgrounds of low suction. It can be used internally or externally and in areas of continuous or intermittent water contact. SBR Bond improves the chemical and water resistance of cementitious mixes and is recommended for use in effluent tanks, dairies, food factories, fertiliser stores etc.

AREA OF USE

Patching

Where steel reinforcement is exposed, wire brush or preferably grit-blast to remove rust and scale. Apply Bonding Primer 2 liberally to prepared exposed steel and allow to become firm/tacky. Dampen the surrounding substrate and apply Bonding Primer 2 over the entire area to be patched (including reinforcement). Whilst the final Bonding Primer coat is still wet/green, patch using Mix 1.

Bedding

Dampen where necessary, then apply by brush Bonding Primer 1 to both prepared surfaces, and whilst the Bonding Primer mix is still wet/ green butter one of the surfaces with Mix 1. Provide temporary support where necessary.

Pointing

Apply Bonding Primer 1 into the dampened joints and whilst the Bonding Primer is still wet/green point the joints with Mix 1.

Waterproof Renders

Dampen surfaces if necessary, then brush apply Bonding Primer 1. For difficult surfaces i.e. weak

porous substances, apply Bonding Primer 2 brushing vigorously into the surface. Allow to harden (minimum 16 hours, maximum 3 days), then apply Bonding Primer 1 as above. Whilst the final coat of Bonding Primer is still tacky/wet apply a render mix 1 to a minimum thickness of 6mm. Scratch this coat to provide a key, then apply a second coat of Mix 1 at maximum thickness 6mm, when the first coat is firm (approximately 6 hours).

Tanking

(Cellars, swimming pools and pond)

For new construction or existing sound structure, e.g. dense concrete, engineering bricks, etc. (minimum compressive strength 40 N/mm²) Rake out all unsound joints and re-point as detailed under 'pointing'. Allow to cure from 24 hours before continuing. Apply Bonding Primer 2, brushing vigorously into the dampened surface, stipple to provide a physical key. Bed a fillet of Mix 1 at the wall and floor junction, whilst the Bonding Primer is still wet/green. Allow to harden (minimum 16 hours, maximum 3 days). Apply a second coat of Bonding Primer 2, to provide a physical key. Apply Mix 1 as detailed under 'Waterproof Renders'. Care should be taken to ensure that the joints are staggered and corners covered. The rendering coats should be brought down onto the floor and a screed laid overlapping the render.

For areas subject to very high levels of water pressure e.g. cellars, basements, etc., where floors are in poor condition, BS 8102: 1990 should be consulted.

Flooring

Dampen surfaces if necessary then brush on one coat of bonding Primer 1. Lay screed whilst the Primer is still tacky/wet.

Units 1-2, Holme Lane,
Riverside Business Park,
Rawtenstall, Rossendale
BB4 6JB

Tel: 01706 212030 Fax: 01706 213737
www.nvirol.co.uk sales@nvirol.co.uk



n-virol
SPECIALIST PRODUCTS

For 6mm – 12mm thickness screeds: use Mix 2.
 For 12mm – 25mm thickness screeds: use Mix 3.
 For 25mm – 40mm thickness screeds: use Mix 3 with
 SBR Bond reduced to 5 litres/50 kg cement
 (ca. 1 part SBR Bond: 3 parts water).

Heavy duty screeds

12mm- 25mm thickness: use Mix 4.
 25mm – 40mm thickness: use Mix 4 with SBR
 Bond reduced to 5 litres/50 kg cement (ca. 1 part
 SBR Bond: 3 parts water).

The above screeds should be applied whilst the
 Bonding Primer is still wet/green. For dense water
 resistant concrete, Mix 5 should be used.

Bonding Gypsum Plaster

Brush apply 2 coats of Bonding Primer 3. Allow
 approximately 30 minutes between coats, and
 whilst the second coat of Bonding Primer is still
 wet, apply gypsum bonding plaster as per normal
 plastering practice.

Suction Control

SBR Bond may also be used as a Primer coat
 when diluted with 4 parts water to control suction
 on very porous and difficult surfaces before
 subsequent treatments are carried out with
 cement/gypsum based systems.

SITE WORK

Where specific building methods are covered by
 British Standard Codes of Practice, i.e. rendering
 and floor screeds, these should be followed as a
 guide to good building practice. All surfaces must
 be sound and free from laitance, grease, oil, paint,
 surface water or any other contaminants which
 may adversely affect adhesion. Surfaces of high
 suction should be thoroughly dampened before
 application of bonding primers. Remove any
 excess water from the surface before continuing.
 The sands used in the mixes should be well
 graded, clean, sharp sand and meet the appropri-
 ate British Standards.

MIX DESIGNS

Bonding Primers

Bonding Primer 1 – 1 part SBR Bond: 1 part water:

5 parts cement (by volume) mixed to produce a
 smooth, creamy consistency. Coverage: approx
 6m²/litre/coat.

Bonding Primer 2 – 1 part SBR Bond:

2 parts cement (by volume) mixed to produces a
 thin, smooth cream. Coverage: approx 4m²
 /litre/coat.

Bonding Primer 3 – 1 part SBR Bond:

1 part water: 3½ parts gypsum plaster (by
 volume). Mix to a smooth consistency. Coverage:
 approx 5m²/litre/coat.

Note: All Bonding Primers should be applied to a
 minimum thickness of 1mm.

Mix Type	Aggregate sand/cement by weight	Aggregate sand/cement by volume	SBR/water gauging liquid	Yield 50kg cement
1	0:2.5:1	0:2:1	3:1	0.1m ³
2	0:2.5:1	0:2:1	1:1	0.1m ³
3	0:3:1	0:2.5:1	1:1	0.11m ³
4	*1.5:1.5:1	*1.25:1.25:1	1:1	0.11m ³
5	**2.5:1.5:1	**2.5:1.25:1	1:3	0.14m ³

* 3mm to 6mm granite chips

** 20mm aggregate

Enough gauging liquid should be used to provide
 working consistency. Prevent the mixes from
 drying out too much during the first 48 hours, e.g.
 covering with polythene sheeting, damp hessian
 or mist spraying with water. All screeds should be
 laid in bays not exceeding 25m². The maximum
 length of the bay should be no greater than 1.5 x
 width. Best results are achieved if work is carried
 out at ambient temperatures of 5°C to 25°C, with
 the use of well graded clean, sharp dry sands.

Thinning/cleaning: SBR Bond disperses in water.

STORAGE

Store in a dry place and protect from frost, high
 temperatures and direct sunlight.

PACKAGING

SBR Bond available in 5 Litre or 25 Litre
 containers.