



TECHNY CHEMY

TEC[®] BOND SBR

SBR bonding agent and mortar modifier

KEY BENEFITS AND FEATURES

- Enhances bond strength between existing concrete/ masonry surfaces and new mortar.
- Cured mortar reflects higher flexibility resulting in the repaired surface showing higher durability and longer life.
- Increased Compressive and tensile strengths when compared to conventional mix.
- Can be used with most commonly available cements.
- Both bond coat and modified mortar preparations display reduced water absorption properties.
- Mortars are also significantly plasticized and workability considerably improved.
- Very thin set applications are possible with the modified mortars.
- Produces extremely durable mortars with good weather resistant properties.

Usage

- Ideal as a bonding agent for cementitious repair mortars.
- Ideal as a bonding agent and mortar modifier for spalled concrete repairs.
- Can be used in Combination with cement mortars as a bonding agent for concrete cold joints.
- Ideal as a bonding agent for floor toppings and pothole repairs in industrial floors.
- Can be used as an admixture for polymer modified floor screeds.
- Can be used as an admixture for producing weatherproof and waterproof cement plasters for masonry surfaces.

DIRECTIONS FOR USE

Surface Preparation : The surface should be sound, free from dirt, oils and greases. The surface to be bonded should be thoroughly cleaned by wire brushing. Surface should be washed thoroughly to be free of fine dust. In case of oil/ grease contamination the same should be removed by thorough detergent washing followed by washing with clean water. Very smooth surfaces should be roughened for key. In case of concrete surfaces, corroded reinforcement should be cleaned to be free of rust and scales and then coated with Tec[®] Beat ZR- Zinc Rich Epoxy coating system.

Bond Coat- Mixing : Add one part Tec[®] Bond SBR to one part water and 2-3 parts of fresh cement (depending on required consistency) in a clean vessel and mix to obtain a lump free and homogenous mix that can be applied by brush. Cement should be added while gently mixing in order to avoid lumps. While applying the mix, occasional stirring should continue to prevent the cement in the mix from settling.

Bond Coat- Application : The surface to be bonded should be saturated with water and excess water removed before application of bond coat. The mix must then be applied on the prepared concrete surface with a stiff bristled brush ensuring uniform spread and avoiding puddles or air bubbles. Placement of concrete / plastering with Polymer modified renders or normal mortar plastering should be carried out while the bond coat is still tacky and wet. In case the first bond coat dries up a second coat must be applied.

Modified Mortar - Mix Preparation : The typical mix design for preparation of polymer modified render for patch repairs and waterproof plastering would be 50 Kgs Cement, 160 Kgs Zone II sand washed and dried and 7-10 Kgs of Tec[®] Bond SBR. Water may be added to attain required consistency. Mix well till required consistency is achieved. The resulting mix should not be watery. Mixing should be done in a concrete mixer when the weight of the mix exceeds 25 Kgs. Ensure that the water content is just adequate. Excess water will lead to sagging of mortar. The recommended mix design for floor screeds would be 50 Kgs Cement 80 Kgs Zone II sand washed and dried, 80 Kgs 6mm downgraded chips and 7-10 Kgs of Tec[®] Bond SBR. Water may be added to attain required consistency. Mix well till required consistency is achieved. Mixing should be done in a concrete mixer when the weight of the mix exceeds 25 Kgs. Ensure that the water content is just adequate. Excess water will lead to Shrinkage of screed on curing. A single layer of screed should not exceed 20mm for best results. In cases where pothole depth is in excess of 20mm the repair may be carried out in layers of not more than 20mm.



Certified:
ISO 9001 (QMS) & ISO
14001 (EMS)



Modified Mortar- Application : Bond coat applications should be carried out as instructed above. Application of the modified mortar should be done while the bond coat is still wet and tacky. Application of the mortar should be done in layers of not more than 6mm thickness. Repetitive layers can be applied in rapid succession at a time gap of 60-90 minutes under normal atmospheric conditions. Or form work can be provided for single layer applications. Do not re-temper the mix during application. In case of concrete repairs the exposed reinforcement rods should be cleaned to be free of rust and scales and then coated with Tec Beat ZR- Zinc Rich Epoxy coating system. The Tec Beat coating should be allowed to cure for 48 hours before application of renders.

Post Application : Curing is vital for optimum performance of modified renders. Curing should commence 24 hours after application and should continue for a minimum period of 7 days.

Cleaning : Tools and equipments should be cleaned with water when the mix is in uncured state. Cured mix can only be removed mechanically.

Precautions : Direct contact with skin or eyes should be avoided. Use of gloves, goggles and other protective gear is mandatory. In case of accidental eye contact thorough water washing is advised. This should be followed up with professional medical assistance. Although Tec Bond SBR is non-toxic it should not be swallowed. Tec Bond SBR is non flammable.

TECHNICAL DATA

Physical State	White Liquid
Mix Design- Bond Coat	Liquid-1 Vol.: Water- 1 Vol.: Cement- 2-3 Vols.
Mix Design - Modified Mortar	50 Kgs Cement, 160 Kgs Zone II sand washed and dried and 7-10 Kgs of Tec ^R Bond SBR
Mix Design - Modified Floor Screed	50 Kgs Cement, 80 Kgs Zone II sand washed and dried, 80 Kgs 6mm downgraded chips 7-10 Kgs of Tec ^R Bond SBR
Pot Life at 30 ^o C for bond coat	20-30 Minutes Typical properties of 1:3 cement sand mix when modified with Tec ^R Bond SBR @ 7kgs/50kgs cement.
Flexural Strength after 28 days in N/mm ²	7
Compressive Strength after 28 days in N/mm ²	25
Tensile Strength after 28 days in N/mm ²	3.7
Storage	Store in cool, dry location
Shelf Life	Maximum of 1 year from date of manufacture in unopened package
Coverage, for One bond coat on normal Surface	Slurry : 50 - 70 Sft/Kg, Modified Mortar : 30 - 50 Sft / Kg

PACKAGING

Available in: 1,6,10 & 50Kgs

OTHER PRODUCTS

Techny manufactures lot more range of other products for construction and repair applications. They include admixtures for concrete, mortars, block making etc, waterproof and damp proof coating systems, Repair and rehabilitations products, Grouts and Anchors, Protective, Decorative and Corrosion prevention coatings, Epoxy Flooring systems, Industrial flooring systems and Tiling aids. For more details refer Separate Product brochures.

Every reasonable precaution is taken in the manufacture of the Techny products to ensure that they comply with high standards of quality. The recommendations and properties of the products are based upon what is believed to be the most reliable information available and are not intended as recommendations which infringe other patents. Although all Techny products are subject to rigid quality tests, no specific guarantee can be given, because results depend not only on quality but also on other factors beyond our control. We therefore welcome consultation in the event of doubt about application performance etc but do not accept any liability either directly or indirectly arising from the use of the products whether used as per its specifications or advice or otherwise. All transactions shall be subject to our terms of sale, delivery and payment. The leaflet supercedes the previous one and any new issue may take place without notice to supercede this edition as and when it becomes necessary.

TECHNICAL DATA SHEET
REVISED – 01 July 2013

CORPORATE OFFICE:

No.24, Patel Street, Ayyappa Nagar, Tiruchirappali-620021. Tamilnadu, India
Phone : 0431 2458519 Fax No : 0431 2458590 Email : info@technychemy.co.in
Web : www.technychemy.co.in