



**STERLING**  
**TECHNO TRADE**  
The Specialist Construction Chemical Company

## TechnoSeal® FlexiPrime SB

Silane Siloxane based hydrophobic primer for solvent based Coatings.

### Description:

TechnoSeal® FlexiPrime SB is a penetrating hydrophobic silane/siloxane based primer. It is used as a primer for Techno Builders Solutions® range of acrylic based protective coating. When applied, it reacts with concrete and masonry surfaces producing a clear hydrophobic barrier that prevents the passage of water and hence protects exposed reinforced concrete structures from attack by chloride ions.

TechnoSeal® FlexiPrime SB is design to enhance the bonding between the substrate to the membrane and reduce the capillary absorption of construction materials without blocking their pores and capillaries. They therefore do not affect the diffusion permeability. As a result, water vapour can escape unhindered from the masonry, and any damp can dry out.

### Application Includes:

TechnoSeal® FlexiPrime SB used as a penetrative primer/sealer for anti-carbonation coatings systems for following applications:

- Car parks, bridges.
- Protection against the salt effects.
- Primer for anti-carbonation system to prevent CO<sub>2</sub> and chloride ions ingress.
- Primer for acrylic topping (anti-carbonation coatings or weather shield coatings) for porous surfaces.
- As a concrete sealer on a variety of surfaces such as Exterior insulation and finish system (EIFS), colored plaster and exposed aggregate.
- Can be applied as a water repellent compound for sealing porous surfaces

### Features:

- Penetrates deeply into brick and other masonry substrates
- Form a durable polysiloxane damp course via chemical bonding
- Easy to use, non-corrosive and non-toxic formulation.
- Suitable for walls subject to high levels of humidity (100 %).
- High silane/siloxane content, and low molecular weight with high level of penetration into substrate.
- Allows the substrate to breath, it does not seal the pores. Once treated, substrate can be painted.
- High performance in a wide range of mineral substrates: concrete, cement mortar, lime mortar, etc. Not affected by substrate alkalinity.
- It does not produce or release any salts. No aesthetic changes on the original surface.
- Very good impregnation and distribution in brick masonry or mortar substrates and voids due it creamy consistency.

### Typical Properties at 25°C

Form	Clear liquid
Specific Gravity	0.85 ± 0.02
Water Resistance	Excellent
Over coating time on Concrete @25°C	2 hours (minimum), 24 hours (maximum)
Over coating time on steel @25°C	3 hours (minimum), 24 hours (maximum)
Drying time at 25°C, RH 65%	4 hours
Number of coats	Flood coat
Full Cure, at 25°C, 60% RH	5 days
VOC ( ASTM D2369)	< 750 g/ltr

### Mixing

Settling of the product will occur during storage. Shake the TechnoSeal® FlexiPrime SB container until a uniform consistency is achieved before use. DO NOT DILUTE.

### Application Procedure

#### Surface Preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, laitance, and all traces of mould release oils. This is best achieved by lightly grit-blasting the surface to the point where the fine aggregates are exposed but not polished. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process. All blow holes and similar surface irregularities should be filled using Techno Builders Solutions® range of TechFin® and TechnoCem™ range of repair materials and should be allowed to cure properly before the application of TechnoSeal® FlexiPrime SB.

Any areas of glass should be masked. Plants, grass, joint sealants, asphalt and bitumen-painted areas should be protected during application. The primer is best applied by using brush or short hair roller. A uniform surface appearance (sheen) should be apparent when the required rate of application rate has been achieved. If any matt, porous patches remain, then a further application of TechnoSeal® FlexiPrime SB should be made. If in any doubt regarding substrate priming, contact the \*STIPL technical representative.

### Application

The correct application rates and over coating times should be observed, in order to obtain the complete benefits of the protective properties, except where substrate condition dictates different application rates for the primer. Application should not commence if the temperature of the substrate is below 2°C. Any areas of glass should be masked. Plants, grass, joint sealants, asphalt and bitumen-painted areas should be protected during application. TechnoSeal® FlexiPrime SB should be applied in one or more coats until the recommended application rate of 0.4 litres /m<sup>2</sup> has been achieved. This is best accomplished by using portable spray equipment. The primer should be allowed to dry for a minimum of two hours (at 25°C) before application of the TechnoCoat® CarboElastic1K (S) coating. Under no circumstances should the primer be over coated until the surface is properly dry.

## Health and Safety instructions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Precautions Rules should be used.

Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

## Cautions & Important Watch Points

Where application over existing sound coatings or paints is required, trials should be conducted to ensure compatibility and retention of the bond between the underlying coating and the substrate. Compatibility and soundness should be assessed on a trial area.

TechnoSeal® FlexiPrime SB should not be used in submerged or permanently wet conditions. Consult the \*STIPL Technical representative for recommendations. Application should not commence if the temperature of the substrate is below 20°C or above 60°C, or where the prevailing relative humidity exceeds 90%.

In conditions of high relative humidity i.e. 85-90% good ventilation conditions are essential. Substrate temperature should be at least 3°C above dew point.

TechnoSeal® FlexiPrime SB should not be applied in windy conditions where early-age dust adhesion may occur, or where rain is likely within 2 hours.

## Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

\*Separate datasheet are available on these products.

## Coverage Theoretical

Approximately 2.5m<sup>2</sup>/litre (depending on porosity of substrate) or more may be required for very porous concrete.

## Cleaning of Tools and equipments

TechnoSeal® FlexiPrime SB should be removed from tools and equipment with clean water immediately after use. Once cured TechnoSeal® FlexiPrime SB can only be removed by mechanically.

## Packaging

TechnoSeal® FlexiPrime SB supplied in 20 kg working packs.

## Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 pallettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Pallettes should not be placed on top of each other during long term storage. Keep away from any fire hazards or ignition sources

## Shelf Life

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

**DISCLAIMER:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

**EDITION:** 10/2017/001

**IDENTIFICATION NO:** PD-058

Please note that this datasheet supersedes all previous versions.

# STERLING TECHNO TRADE INDIA PRIVATE LIMITED

## The Specialist Construction Chemical Company®

**Head Office:** 109-111-112, 1st Floor, Vijaya Building, No. 17, Barakhamba Road, Connaught Place, New Delhi- 110001

**Manufacturing Unit:** Plot No-J-3, UPSIDC Site C, Surajpur Industrial Area, Greater Noida, Uttar Pradesh 201306

**WEB:** sterlingtechnotrade.com | **EMAIL:** support@sterlingtechnotrade.com | **TEL:** 01145084212