

Description:

TechnoSeal® FlexiPrime WB is a water-based primer based on acrylic resins with high resistance to alkaline environment and it is used for preparing absorbent substrates. It has excellent penetrating ability creating the suitable conditions for the covering's adhesion.

TechnoSeal® FlexiPrime WB is design to enhance the bonding between the substrate to the membrane and also to acts as a general protective coating that protects concrete masonry & metal structures from corrosive soil salts and ingress of subsurface water. It form a seamless protective and waterproof membrane after drying.

Typical applications include

Used as an high performance primer for water based anti- carbonation and waterproof polymer coating for bridge deck, under pass, building walls, roofs, etc. Can be used as sealer coat for industrial floors, interior/exterior walls. When used as primer it enhances performance of high end interior/exterior decorative/protective coating.

Features and Benefits

- Easy application; can be applied by brush or roller at site.
- Excellent resistance to carbon dioxide, acid rain, and alkali solution.
- Excellent resistance to water
- Green product -No VOC (Volatile Organic Compound).
- Very good adhesion with concrete and masonry.

Typical Properties at 25°C

Form	Low viscous liquid
Appearance of dry film	Translucent
Specific Gravity	1.03±0.02
Water Resistance	Excellent
Permissible Relative Humidity %	60-65%
Pot Life @ 25°C	3 hours
Over coating time on Concrete @25°C	3 hours (minimum), 36 hours (maximum)
Over coating time on steel @25°C	4 hours (minimum), 36 hours (maximum)
Drying time at 30°C, RH 65%	4 hours
Pull off Adhesion at 14 days, ASTM D 541, MPa	> 1.5 (concrete failure)
Full Cure, at 30°C, 60% RH	5 days

Packaging

TechnoSeal® FlexiPrime WB supplied in 5 kg, 10kg, and 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 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage. Keep away from any fire hazards or ignition sources

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 TechFin® and TechnoCem™ range of repair materials and should be allowed to cure properly before the application of TechnoSeal® FlexiPrime WB.

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 WB should be made. If in any doubt regarding substrate priming, contact the *STIPL technical representative.

Mixing

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

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. TechnoSeal® FlexiPrime WB should be applied to achieve a uniform coating with a wet film thickness not less than 200 microns.

This coat should be allowed to dry until firm to the touch. Typically, this will be after approximately 1-2 hours depends on weather conditions. Under no circumstances should the primer be over coated until the surface is properly dry.

Coverage (Theoretical)

4-5 m² /kg/coat (depending on surface finish) or more may be required for very porous concrete.

Cleaning of Tools and equipments

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

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.

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

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.

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Please note that this datasheet supersedes all previous versions.

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.

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