



TechnoSeal® Bitucold SB

High Build Cold Applied Bitumen Primer to improve the adhesion of bitumen based membranes and coatings.

Description:

TechnoSeal® Bitucold SB is a quick drying solvent based high build low viscosity bitumen primer. It is used as a primer coat on masonry and concrete substrates to improve the adhesion of bitumen based membranes and coatings. TechnoSeal® Bitucold SB is low in viscosity, which allows it to penetrate into the concrete pores and improve the adhesion between the membrane and the concrete surface. In addition to that, TechnoSeal® Bitucold SB also acts as a binder for the dust particles which gets accumulated on the concrete surface even after cleaning.

Application Includes:

TechnoSeal® Bitucold SB is recommended for use in the following areas of application-

- Used as a primer on steel or concrete substrates.
- To establish bond between the mother surface and subsequent overcoats/ membranes.
- It can also be used as protective coating of concrete structures and protection of galvanized iron in corrosive environment.
- Used as a primer and sealer coat prior to the application of bitumen based waterproofing membranes and coatings.

Features:

- Improves the adhesion of bitumen based sheet membranes and coatings
- Cold applied, does not require heating
- Binder for dust particles
- Anti-corrosive
- Conforms to ASTM D41 - Asphalt primer for roofing, damp proofing and waterproofing

Coverage

Application rate is approx. 0.300-400kg / m² or more may be required for very porous concrete.

Cleaning of Tools and equipments

Used tools and equipment must be cleaned carefully with an appropriate solvent like TechnoPur® Eco Cleaner. Once cured TechnoSeal® Bitucold SB can only be removed by mechanically.

Packaging

TechnoSeal® Bitucold SB supplied in 20 Kg, 30 Kg working pack.

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

Application Procedure

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion. The concrete substrates on which the product is going to be applied should be M25 grade and the concrete should be 28 days old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm² (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4%.

Typical Properties at 25°C

Appearance of dry film	Black
Viscosity, (by Brookfield Viscometer), cps, at 25° C	800-1500
Specific Gravity, at 25° C	1.1
Non-volatile Content, % (w/w), ASTM D402	46
Volatile Matter, % (w/w) ASTM D 402	54
Touch Dry, hours, at 25° C and 60% RH	<4
Hard Dry, hours, at 25° C and 60% RH	<24
Flash Point, °C , (TOC method), ASTM D 3143	46
Water content, ASTM D 95	Nil (Less than 0.1)
Penetration of asphalt from Distillation , ASTM D 5	37
Coverage	0.3-0.5 l/m ² (Depending on surface condition)

Application Method

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the primer is as follows-

Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections, nail head protrusions, structurally unsound and friable concrete shall be removed and repaired with a suit-able concrete repair mortar. The surface must be dry before priming with TechnoSeal® Bitucold SB.

Application

Mix the contents of the pail or drum for a few minutes to remove any sediments. Apply the primer to a clean smooth and dry surface by brush/roller. Allow the primer to dry prior to the application of the membrane. For highly porous surfaces application of a second coat is recommended.

For steel surfaces, the preferred surface treatment is abrasion blasting, to a minimum class 2½ Swedish standard. For severe (porous) service conditions two coats are recommended. In steel work, TechnoSeal® Bitucold SB may be applied over 2 pack priming systems or over well cured, single pack primers. In special applications, consult our Technical Service representative for specific recommendations.

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.

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

- Store the material at the 10° to 40°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with TechnoFinish® Eco Cleaner or any standard solvent before hardening starts.
- Do not smoke during application. Store the material in a ventilated area.
- Highly in-flammable.

After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed.

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.

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