

PROTECTOSIL BH N

Description

PROTECTOSIL BH N is a free – flowing, colourless, solvent-free liquid based on a monomeric alkylalkoxysilane. It is specifically intended for the water – repellent impregnation of mineral construction materials in outdoor areas.

PROTECTOSIL BH N is supplied ready to use.

Uses

For the waterproofing of mineral substrates, in particular low-porosity substrates such as:

- Concrete (road bridges, port installations and all marine concrete structures, concrete facades, exposed aggregate concrete)
- Clinker masonry
- Ceramics tiles
- As waterproofing under coating systems

Advantages

- Solvent – free product
- Low volatility
- Water vapour permeable, colourless impregnation
- Non film – forming
- Significantly reduces absorption of water and damaging water – borne salts (e.g. chlorides)
- Very good penetration
- Highly alkali resistant
- Stops alkali/silica reactions in concrete
- Frost resistant

Typical Properties

Appearance	: Free flowing colourless liquid
Density (DIN 51757)	: 0.88 gm/cm ³ at 20°C
Viscosity	: 0.95 mPa.s
Flash point (EN 22719)	: > 63°C
Active ingredient	: Alkylalkoxysilane
Solvent	: Solvent– free
Strength	: 98 – 100%
Odor	: Hardly perceptible
Boiling point (DIN 51751)	: ~ 186°C

Standard Compliance

- TL/TP OS-A of ZTV SIB 90

Specification Clause

The surface applied hydrophobic waterproofer shall be PROTECTOSIL BH N, an alkylalkoxysilane monomer formulation. The product shall be deep penetrative type and shall not form water repellent film on the

surface. The product shall not change the appearance of the substrate and shall not provide beading effect. When tested as per RILEM test shall exhibit more than 90% reduction in the water uptake. The product shall be based on pure silane formulation, and free of siloxane and solvents.

Directions for use

Surface Preparation

The surface to be treated should be air-dry and clean in order to ensure deep penetration of the active ingredient. During application the outside temperature and the temperature of the surface should be within the range of 0 to 45°C. The material should not be applied if there is a strong wind or if it is raining. The material must not come into contact with water either before or during use.

Application

PROTECTOSIL BH N must be applied by flow coating to the saturation point. This is achieved by allowing it to flow without pressure against the surface to be treated. All delivery devices for liquids are suitable (airless spray guns, for example). The material must not be atomized or applied with a brush.

A liquid film of PROTECTOSIL BH N must remain in contact with the substrate for several seconds. Horizontal surfaces should have shiny, wet appearance for 3-5 seconds. Vertical surfaces should exhibit a 30-50cm shiny curtain of liquid.

All equipment and containers must be clean and dry. After use they can be cleaned with any organic solvent (methylated spirit, petrol or thinners).

Non-absorbent substrates such as, for example, glass, wood, plastic and metal cannot be treated with PROTECTOSIL BH N. Glass, wood and metal are not attacked by PROTECTOSIL BH N. Neither is most plastics used in construction. Therefore covering is normally not necessary. To make it sure we recommend carrying out a test. In the worst case, product not absorbed by the substrate may react with atmospheric moisture to form a greasy, glossy silicone resin film, which can easily be removed if cleaned immediately using conventional cleaning agents, or alcohol.

Plants in the vicinity of the substrate to be treated should be protected against contact with PROTECTOSIL BH N.

PROTECTOSIL BHN reacts with the boundary surfaces in pores and capillaries of the mineral, water-



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repellent boundary surface compound. As possible previous treatments of the substrate are, however, unknown, it is always advisable to carry out a test to make sure that there are no undesirable accompanying effects.

Coverage

The amount to be applied depends to a large extent on how absorbent the substrate is. In practice, it has to be determined by a trial impregnation. On dense concrete substrate coverage shall vary from 150 – 250 ml/m².

Packaging

PROTECTOSIL BH N is supplied in 20 & 200 litre drums and one tonne bulk containers.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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Page 2 of 2

