

MasterProtect[®] H 1100 (Formerly known as Protectosil[®] BHN)

Water Repellent Material for Absorbent Surfaces

DESCRIPTION OF PRODUCT

MasterProtect[®] **H 1100**, is a monomeric alcylalcocsilane based, single part, non-solvent, low viscosity, tranparent, ready to use water repellent material.

FIELDS OF APPLICATION

- On concrete surfaces (beams and tiles of bridge columns, sea structures, exterior surfaces of reinforced concrete buildings, etc.)
- On brick and roof tile surfaces (exterior surfaces of masonry structures)
- On tile surfaces
- On exteriors as water repellent against dusting and efflorescence

FEATURES AND BENEFITS

- Single part, easy to apply
- Since it is transparent, it does not change the look and color of applied surfaces
- Breathing, water vapor permeable
- Prevents penetration of water to surfaces and acts as a shield against harmful effects of water soluble salts like cholorites
- Superior penetration
- High alkali resistance
- Stops alkali-silicate reactions in the concrete.
- Covers micro cracks up to 0.3 mm width
- Conforms with ZTV SIB 90 standards of German
- Ministry of Communication
- High freezing-thawing resistance
- Does not contain solvents

APPLICATION PROCEDURE

Preparation of Substrate

Application surface has to be dry and surface must be cleaned off all kinds of damaged, loose concrete particles, oil, paint, lime, fungus, moss, curing materials, efflorescence, asphalt, etc. traces that can prevent penetration of the material to the concrete. Pressurized water jet or mechanic abrasion methods (sand blasting, shot blasting) may be used for surface preparation. If the application will be made on newly poured concrete, then 28 days must be waited for curing to be completed. Damaged concrete surfaces have to be repaired by **MasterEmaco**[®] series repair mortars before **MasterProtect**[®] **H 1100** application. If there is no sufficient information about pre-applied chemicals on the surface, then material should be tested on a small area before application. Plants near application surface should be protected from contacting **MasterProtect**[®] **H 1100**.

APPLICATION METHOD

MasterProtect[®] H 1100 is a single part and ready to use material. It must be applied by spraying after making necessary surface preparations. Pressure of the spraying equipment has to be low and a suitable nozzle must be used. MasterProtect[®] H 1100 must not be atomized during spraying and no brush should be used during the application. Enough material should be sprayed on the surface during the application and wet layers should be observed on surfaces.

COVERAGE

150-300 g/m² depending on surface absorption.

WATCH POINTS

- MasterProtect[®] H 1100 must not be used on nonabsorbing surfaces like glass, wood, plastic and metal.
- MasterProtect[®] H 1100 must not be atomized during spraying and suitable spraying equipment should be used. No brush should be used during the application.
- Environment and surface temperature should not be below +5°C and over +45°C during the application.
- Before the application, 24 to 72 hours must be waited for surfaces to dry after heavy rain or water jet application.
- If rain is forecasted in 4 hours, application should not be made.
- MasterProtect[®] H 1100 is delivered in ready to use packages. Solvents or water should not be added to the mixture during the application.

TECHNICAL DATA

Structure of the Material	Monomeric Alcylalcocsilane
Color	Transparent
Density (DIN 51757)	0,88 kg/liter
Viscosity	0,95 mPa.s
Breaking Index	1,4000
Explosion Point (DIN 51755)	+63°C
Boiling Point (DIN 51751)	+186ºC
Application Ground Temperature	+5°C +45°C





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CLEANING OF TOOLS

All the tools and equipments must be cleaned by thinner after the application.

PACKAGING

200 liter barrel

STORAGE

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In shortterm storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

18 months after the production date under appropriate storing conditions. Opened packages have to be stored by tightly sealing the cover, and must be used in shelf life.

HEALTH AND SAFETY PRECAUTIONS

It is dengerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Healt and Safety Rules should be used. Due to the irritaion effect of the uncured materials, the mixtures should not come into contact with skin and eyes; in case of 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. The product should be stored and kep out of reach of children. For detailed information please colsult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapi Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapi Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

CONTACT INFORMATION

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