

MasterProtect[®] H 1150 (formerly Masterseal 360 Creme)

Silane based thixotropic paste hydrophobic impregnant

DESCRIPTION

MasterProtect H 1150 is an aqueous, solventless, cream, octyltriethylsilane water repellent. It is a high-quality specialty product for impregnating both normal and reinforced concrete.

RECOMMENDED USES

MasterProtect H 1150 is recommended particularly for impregnating and priming concrete and reinforced concrete used in building bridges, roads and buildings. In principle **MasterProtect H 1150** may be used on any alkaline substrate that has been treated previously with concentrated or undiluted impregnating agents, such as alkoxysilanes.

FEATURES AND BENEFITS

- Good depth of penetration
- Optimum resistance to alkalis
- Dramatic reduction in water absorption
- Comprehensive protection against frost/road salt attack
- Provides good adhesion for paints
- Solventless, aqueous and environmentally compatible
- Low volatility
- Thixotropic and so may be applied without loss of material

PROPERTIES

Supply form	White creme
Specific gravity	0.9kg/lt
Active constituents	80% octyltriethylsilane
pH	7-8
Flash point	> 60°C

MasterProtect H 1150 is a unique impregnating agent because it is thixotropic. It has an outstanding ability to impregnate high-quality concrete and reinforced concrete. Unlike conventional liquid products, **MasterProtect H 1150** can be applied in just one coat of the desired thickness (at the very most, two coats). The silane active ingredient penetrates the substrate within 30

minutes to several hours, the exact time depending on the porosity and thus quality of the concrete. On reaction with the substrate, it releases ethanol and is converted into a polymeric silicon resin. A creamy layer forms initially, but this then disappears completely. As the active ingredient is the same as in conventional liquid impregnating agents, impregnation with **MasterProtect H 1150** does not clog the pores or capillaries, nor does it affect its ability to “breathe”.

MasterProtect H 1150 is designed to penetrate deeply into concrete so as to afford optimum protection against absorption of water and pollutants as well as freeze/thaw cycles. This effect should not be confused with the “beading” effect imparted by impregnating agents that is often referred to as water repellency. Beading is only a surface effect, and it plays a secondary role in protecting the substrate. Concrete treated with **MasterProtect H 1150** has initially only a moderate beading effect, but this increases after the surface has been wetted.

PROPERTIES

Supply form	: Clear liquid
Refractive index of material as supplied	: 1.400 [±] 0.005
Specific gravity	: 0.88
Purity (Isobutyltriethoxysilane)	: 98%
Active ingredients	: 100%
VOC content: g/L 10 (HK prod code P08-13)	

APPLICATION

MasterProtect H 1150 is best applied to the concrete by the airless technique, undiluted and in the desired thickness. Brushes, lambskin rollers or spatulas may be used for smaller areas.

Depending upon the condition and absorbency of the substrate and the impregnation depth required, the exact amount of material used may vary. Typical application rates of between 200 – 400ml/m² may be seen. Up to 400ml/m² may be applied in one operation to vertical surfaces and roofs, without loss of material.



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If the substrate is of high quality and hence not very absorbent, do not apply more than roughly 200ml/m² in one operation, as it may take several hours to penetrate completely. At higher application rates, the impregnating film might liquefy because of the concrete's alkalinity and it might start to run off. A second coat of **MasterProtect H 1150** may be applied at any time, to achieve the desired coverage rate.

To ensure that the concrete sets properly, it is best to wait at least two weeks, and preferably four, before impregnating it. Remove coarse particles and dust from new unsoiled surfaces with a brush or compressed air. Use superheated steam to clean weathered surfaces that are heavily soiled with oil or abraded rubber etc., prior to treatment.

Only impregnate concrete that has a uniformly dry surface with not damp patches. Should it suddenly start to rain, stop treatment and cover the impregnated areas.

PACKAGING

MasterProtect H 1150 is available in 20 litre pails.

SHELF LIFE

MasterProtect H 1150 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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