

MasterProtect® H 1150

Silane based thixotropic paste hydrophobic impregnant

DESCRIPTION

MasterSeal H 1150 is an aqueous, solventless, Thixotropic emulsion, containing octyltriethyl silane hydrophobing agent for reinforced concrete.

RECOMMENDED USES

MasterSeal H 1150 is recommended for impregnating reinforced concrete used in building bridges, roads and buildings to eliminate ingress of water borne contaminants like de-icing salts and other pollutants.

MasterSeal 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** – protects against the ingress of water borne pollutants
- **Resistant to alkalis** – not affected by the pH of the concrete which destroys some silicone based materials
- **Reduction in water absorption** -protection against frost damage and salt ingress
- **Provides good adhesion for paints** – does not interfere with the bond of acrylic based paints like other silicone base surface finishes does
- **Thixotropic and low volatility** - applied without loss of material in exposed conditions

PROPERTIES

MasterSeal H 1150 is a unique impregnating agent because it is thixotropic. It has an outstanding ability to impregnate high-quality reinforced concrete. Unlike conventional liquid products, **MasterSeal 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 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 **MasterSeal H 1150** does not clog the pores or

capillaries, nor does it affect its ability to “breathe”. **MasterSeal H 1150** is designed to penetrate into the concrete so as to afford optimum protection against absorption of water and pollutants as well as freeze/thaw cycles.

Supply form	White creme
Specific gravity	0.9 kg/l
Active Constituents	80% octyltriethylsilane
pH	7-8
Flash point	>60 Degrees Celcius

APPLICATION

MasterSeal H 1150 is best applied to the concrete by the airless technique, undiluted and at the desired coverage rate. 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. 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 **MasterSeal H 1150** may be applied at any time, to achieve the desired coverage rate. Wait at least two weeks, and preferably four, before applying the impregnation. 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 without damp patches. Should it suddenly start to rain, stop treatment and cover the treated areas

ESTIMATING DATA

Typical application rates of between 200- 400ml/m². Up to 400ml/m² may be applied in one operation to vertical surfaces and roofs. 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.



We create chemistry

MasterProtect[®] H 1150

PACKAGING

MasterSeal H 1150 is available in 20lt pails.

SHELF LIFE

MasterSeal 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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