



The Chemical Company

MASTERSEAL® 360 CRÈME

Silane based thixotropic paste hydrophobic impregnant

DESCRIPTION

Masterseal 360 CRÈME is an aqueous, solventless, cream, octyltriethylsilane water repellent. It is a high-quality specialty product for impregnating both normal and reinforced concrete.

RECOMMENDED FOR

Masterseal 360 CRÈME is recommended particularly for impregnating and priming concrete and reinforced concrete used in building bridges, roads and buildings. In principle **Masterseal 360 CRÈME** 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*

PERFORMANCE DATA

Masterseal 360 CRÈME 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, **Masterseal 360 CRÈME** 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 **Masterseal 360 CRÈME** does not clog the pores or capillaries, nor does it affect its ability to "breathe".

Masterseal 360 CRÈME 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 **Masterseal 360 CRÈME** has initially only a moderate beading effect, but this increases after the surface has been wetted.

PROPERTIES

Supply form	: White creme
Specific gravity	: 0.9
Active Constituents	: 80% octyltriethylsilane
pH	: 6
Flash point	: 6

APPLICATION

Masterseal 360 CRÈME 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.

Up to 400g/m² may be applied in one operation to vertical surfaces and roofs, without loss of material. The exact amount depends on the absorbency of the substrate. If the substrate is of high quality and hence not very absorbent, do not apply more than roughly 200g/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 **Masterseal 360 CRÈME** 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

Masterseal 360 CRÈME is available in 25kg pails and 180kg drums.

STORAGE STABILITY

Masterseal 360 CRÈME has a shelf life of at least 12 months if stored in tightly closed original containers between 0° C and 30°C. The "Best use before end" date of each batch is shown on the product label.

If the material is kept beyond the shelf life recommended on the product label it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.



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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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

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BASF Construction Chemicals Australia Pty Ltd	Newcastle	(02) 4961 3819	Adelaide	(08) 8139 7500
Incorporated in NSW A.B.N. 46 000 450 288	Canberra	(02) 6280 6010	Perth	(08) 9366 2600
Head Office: 11 Stanton Road Seven Hills, NSW 2147	Brisbane	(07) 3633 9900	Darwin	(08) 8984 3269
Ph. (02) 8811 4200	Townsville	(07) 4774 7344	Kalgoorlie	0417 772 355
	Melbourne	(03) 9549 0300		

BASF New Zealand Ltd Head Office:
BASF WEB SITES www.basf-cc.com.au

45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
www.basf-cc.co.nz www.basf-ucc.com