



The Chemical Company

MASTERSEAL[®] 355

Colourless hydrophobic impregnant

DESCRIPTION

MASTERSEAL 355 is a low viscosity, one component, clear, liquid impregnant, based on penetrating silane-siloxane. The impregnant, on application as specified, renders the surface water repellent while allowing the water vapour from within the substrate to escape.

FIELDS OF APPLICATION

MASTERSEAL 355 is recommended where the ingress of water and water borne corrosive agents are to be avoided. It can be applied onto most cementitious, masonry and mineral substrates above ground exposed to rain water. Areas of application include:

- preventing rain water seepage through plastered masonry structures.
- protecting concrete structural elements from water penetration.
- priming concrete structures before the application of BARRACRYL D (consult BASF Construction Chemicals).
- preserving the colour and texture of brickwork and blockwork.
- protection of natural and cast stone from damage caused by water ingress.
- protecting structural elements of buildings in marine environment from water borne chloride attack.

MASTERSEAL 355 is not recommended on surfaces subject to vehicular traffic, on below ground surfaces subject to hydrostatic pressure and on floor slabs exposed to rising dampness.

FEATURES AND BENEFITS

Effective water repellence	Prevents rain water ingress. Protects concrete from water borne chloride ions.
Minimises surface efflorescence	Clean appearance of masonry surfaces.
Breathable	Allows excess water vapour to evaporate from the substrate.
Protects from staining and mould growth	Helps preserve natural colour and texture.
Deeply penetrating	Ensures long-term effectiveness.
Easily re-coated	Economical to maintain. No need to remove previous coating.

TYPICAL PERFORMANCE DATA

Depth of penetration – this is a function of method of application, the nature and quality of substrate, its residual moisture content, and the ambient conditions during application. Maximum depth of penetration can be achieved over a dry substrate on a dry, windless day with a high ambient temperature.

PROPERTIES

Supply form	: Clear liquid
Specific gravity	: 0.828
Application temperature	: >dew point

APPLICATION

Surface Preparation

New concrete should be cured for at least 28 days before application.

Correct substrate preparation is critical for optimum performance. Surfaces should be clean and free from loose particles, oil, grease or any other contaminant. Cement laitance, loose particles, oil, grease, mould release agent, curing membrane and other contaminants must be removed by high pressure water jetting or other such effective methods.

Repair all cracks and construction joints and re-point faulty mortar joints (in masonry work) suitably. Consult BASF Construction Chemicals for information on the right materials and methods.

Mask and protect all areas not to be treated including glass, plants, etc., and any other material that should not be exposed to solvents.

Placing

Use **MASTERSEAL 355** as supplied without dilution.

Apply **MASTERSEAL 355** onto dry surfaces for optimum penetration of the substrate. Normally one coat will be sufficient. But on highly absorbent surfaces, indicated by a patchy appearance immediately after application, apply a second coat wet on wet.

Avoid application on a windy or a rainy day and start after at least a couple of hours of clear sunshine following rains. For best results on vertical surfaces, starting at the bottom of the structure and working up, apply a flood coat of **MASTERSEAL 355** by a low pressure air-less spray equipment (knapsack sprayer), so as to produce 150-200 mm run off on the surface below the contact point of the spray pattern.

It can also be applied using a wide short nap roller or brush, in which case, the surface should be flooded but not brushed like a paint, to avoid air bubbles from forming.

BASF Construction Chemicals offices in ASEAN

Singapore
Tel :+65-6861-6766
Fax :+65-6861-3186

Malaysia
Tel :+60-3-5628-3888
Fax :+60-3-5628-3776

Indonesia
Tel :+62-21-526-2481
Fax :+62-21-526-2541

Thailand
Tel :+66-2204-9427
Fax :+66-2664-9267

Vietnam
Tel :+84-650-3743-100
Fax :+84-650-3743-200

Philippines
Tel :+63-2-889-4321
Fax :+63-2-889-



The Chemical Company

MASTERSEAL[®] 355

On horizontal surfaces, apply sufficient material so that it stands for a few seconds before penetration.

MASTERSEAL 355 is invisible when dry. It is important to avoid leaving patches of untreated areas. Apply **MASTERSEAL 355** preferably without breaks during application, until a well-marked area is completely treated.

Should the application be interrupted, mark the boundaries of the applied area to identify the point from where to restart.

EQUIPMENT

Low pressure sprayer, short nap wide roller or brush. Spraying equipment should ideally be fitted with solvent resistant hoses and gaskets.

CLEANING

Clean the tools and equipment using a suitable solvent such as mineral turpentine.

ESTIMATING DATA

Coverage depends on the absorbency and porosity of the substrate. It is approximately 4 m²/L on normal brickwork, 2 m²/L on highly absorbent substrates and 6 m²/L on dense concrete for the first coat. Therefore, approximate consumption varies from 500 ml/m² to 170 ml/m² depending on the nature of substrate. Consumption can also increase while treating tall structures, caused by loss due to wind.

PACKAGING

MASTERSEAL 355 is available in 20 L pails.

SHELF LIFE

MASTERSEAL 355 can be stored in tightly sealed original packaging for 12 months when stored in a dry place at moderate temperatures away from sources of heat and naked flames.

PRECAUTIONS

Health : **MASTERSEAL 355** contains certain chemicals that can cause skin irritation if exposed and respiratory reaction if inhaled. Wear gloves, masks and use hand barrier creams while handling the product. Wash hands thoroughly after handling. Should skin contact occur wash immediately with soap and water, or an effective hand cleaner.

In case of accidental eye contact, wash with copious quantities of water and seek medical help immediately. If ingested, do not induce vomiting. Consult doctor immediately.

The vapours of solvents used for cleaning can be irritating. It is therefore recommended that cleaning is done in well ventilated areas.

Fire : **MASTERSEAL 355** is flammable. Avoid exposure to naked flame. Do not smoke while handling the product.

Flash point : 35°C

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

AN/MSeal355/v2/060409

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

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