



The Chemical Company

MASTERSEAL® 351 SC

Silane Based Surface Protector and Water Repellent

Description of Product

MASTERSEAL® 351 SC is a silane based, single component, non-solvent, low viscosity, transparent, ready to use surface protector and water repellent material.

Fields of Application

- On natural stone surfaces (exteriors of historical buildings).
- On marble surfaces.
- On brick and tile surfaces (exterior surfaces of masonry structures).
- On concrete surfaces (exteriors of reinforced concrete buildings).
- As water repellent and surface protector on tiles for easy cleaning.

Features and Benefits

- Single component, easy to apply.
- Since it is transparent, it does not change the look and color of applied surfaces.
- Breathing, water vapor permeable.
- Water and oil repellent.
- Does not form an adhesive silicon film layer on surfaces.
- Enables long term cleanness of surfaces and makes cleaning easier.
- Prevents moss and tarnishing on surfaces.
- Prevents water stains caused by rainfall.

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 Preparation of Substrate. 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 **Emaco®** series repair mortars before **MASTERSEAL® 351 SC** application. If **PROTECTOSIL® BHN** or **PROTECTOSIL® CIT** were used on the application surfaces before, then at least 2 weeks have to pass before **MASTERSEAL® 351 SC** application. This period varies depending on environment conditions and necessary for the material to exhibit its functions.

Application Method

MASTERSEAL® 351 SC is a single component and ready to use material. It must be applied by spraying after making necessary Preparation of Substrates. Pressure of the spraying equipment

Technical Data

Structure of the Material	Silane
Color	Transparent
Density	1.01 kg/liter
Application Ground Temperature	+10°C +40°C



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has to be low and a suitable nozzle must be used. **MASTERSEAL® 351 SC** 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. **MASTERSEAL® 351 SC** should be applied in multi layers to give easy cleaning ability (especially on surfaces with high permeability and cavity rate) to the surface. However, coverage will increase after the first layer, since surface absorption will be reduced. Droplets formed on the surface during application of other layers should be spread on the surface by a roll or brush.

Generally, in 15-20 minutes after the application, material start to show its protection effects (especially in hot and dry weathers). On some surfaces like puddle clay, reaction of the material is slower and it may take a few days to complete its cure. Application should be continuous and suspended between layers to prevent overlapping layers. **MASTERSEAL® 351 SC** will not penetrate to previously applied surfaces (with low permeability) and droplets will form on the surface. When these droplets are not cleaned or spread homogenously surface gets cloudy and stained. Windows, glass, surfaces to be painted and plants should be covered by plastic covers before application. If the material is smeared on these surfaces, then standard cleaners and silicon solvents may be used for cleaning before the material dries.

Coverage

100 - 200 g/m² in single layer depending on surface absorption.

Watchpoints

- **MASTERSEAL® 351 SC** must not be used on non-absorbing surfaces like glass, wood, plastic and metal.
- **MASTERSEAL® 351 SC** 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 +10°C and over +40°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.
- Application should not be made in rainy or windy weathers.
- If rain is forecasted in 4 hours, application should not be made.
- **MASTERSEAL® 351 SC** is delivered in ready to use packages. Solvents or water should not be added to the mixture during the application.
- If performance improvers were applied to the surfaces before, then **MASTERSEAL® 351 SC** should be tested on a small area before the application.
- If **PROTECTOSIL® BHN** or **PROTECTOSIL® CIT** were used on the application surfaces before, then at least 2 weeks have to pass before **MASTERSEAL® 351 SC** application.
- Should not be used on surfaces with pedestrian or vehicle traffic.

Equipment Cleaning

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

Packaging

5 kg and 25 kg drums

Storage

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palletes 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 palletes must not be stowed on top of each other.

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Shelf Life

12 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

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

Disclaimer

This information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, BASF Yapı Kimyasalları San. A.S. is only responsible from the quality of the product. BASF Yapı Kimyasalları San. A.S. cannot be hold responsible from the results caused by applications of the product not in accordance with the written suggestions of how and where to use the product and/or faulty applications. This technical document is valid until a new one is printed and abates the previous editions. 01/2008.

