DRIZORO® Construction Products

MAXCLEAR® TOP

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TRANSPARENT HYDROPHOBIC SEALER OF WATER-BASED SILANES/SILOXANES FOR PROTECTION ON CONCRETE, STONE, BRICK AND MASONRY

DESCRIPTION

MAXCLEAR® TOP is a high-quality, water-based hydrophobic sealer based on silane/ siloxane resins, specifically designed as transparent water-repellent and protection against rainwater and weathering on concrete, brick, cement mortar, masonry, natural stone and limestone substrates. It is supplied in liquid form ready to be applied directly by brush, roller or sprayed at low pressure.

APPLICATION FIELDS

- Protection and water-repellent sealer of architectural concrete in civil works, bridges, roadways, etc, protecting against corrosion of steel rebars, freezing cycles, sea environment, chloride-ion ingress, etc.
- Transparent protection for precast of concrete or exposed aggregate panels, etc.
- Invisible protection of façades and residential buildings made of brick, natural stone, ceramic, etc. against microbiological growth of fungi and moss on surface.
- Hydrophobic impregnation of tiles and other ceramic porous elements in the manufacturing plant.
- Water-repellent protection of mortars and renders on façades, whether recently applied or old age.
- Protects against stains of oil, gasoline, salts and other stains on floors and stone paving.

ADVANTAGES

- Provides transparent and invisible protection against rainwater creating a hydrophobic area with waterdrop effect. It does not change the appearance of the area applied.
- Protects against freeze-thaw cycles.
- It is a non-film forming sealer, allowing the water vapour diffusion of the substrate.
- Great penetration depth in building materials.
- Reduces the appearance of efflorescences, and salts on surface. Easier cleaning and maintenance, extending the façade's lifetime, making it self-cleaning with rainwater.
- High resistance on alkaline cementitious substrates.
- It is not affected by environmental temperature changes.
- Can be applied over green concrete or mortar.
- UV resistant, no yellowing, maintains and enhances the natural tone of the substrate.
- Non-flammable and non-corrosive, environmentally friendly.

APPLICATION INSTRUCTIONS

Surface preparation
The surface to be treated must be free of dust, grease, efflorescence and totally dry. All voids, cavities and cracks in substrate must be repaired with ***MAXREST®*** (Technical Bulletin No. 2) and joint mortar defects can be repaired with ***MAXJOINT®*** (Technical Bulletin No. 09).

Application
Apply by short hair brush, roller or spray at low pressure reaching saturation. Apply two coats, allowing the first to dry, and with a maximum waiting time of ten hours between them. Apply with homogeneous consumption, from top to the bottom. Avoid over-saturation or flooded areas on surface by excessive consumption which may cause white spots on the surface. After 24 hours, ***MAXCLEAR® TOP*** begins to repel water.

On green facade mortars, apply ***MAXCLEAR® TOP*** after 24 to 48 hours curing, in two successive layers, the second coat once the first one has dried depending on weather conditions.

Application conditions
Do not apply with temperatures below 5°C or if lower temperatures are expected within 24 hours after application. Do not apply on frozen surfaces.
Avoid any application if rain is expected within 24 hours.

With hot temperatures (> 35 ºC), apply preferably under shadow areas.

Cleaning
Use ***MAXSOLVENT®*** for cleaning all tools and equipments immediately after application.
Protect glazed or aluminium surfaces against stains in facade works. In case of stains, use ***MAXSOLVENT®*** for cleaning within the first hour.

CONSUMPTION

Estimated consumption of ***MAXCLEAR® TOP*** on non-porous substrates such as concrete and mortar is 0,20-0,35 l/m² approximately per coat, with a total consumption of 0,40-0,70 l/m² in two coats. Porous substrates such as brick, ceramic, stone or tile, the estimated consumption is about 0,40-1,0 l/m² per coat, with a total consumption of 0,80-2,0 l/m² in two coats.

These estimative consumptions may vary depending on substrate conditions and application method. A preliminary test on-site will determine the consumption exactly.

IMPORTANT INDICATIONS

- Carry out a preliminary test on-site to evaluate the consumption exactly and the aesthetic effect on surface, especially on recent single-layer mortars.
- Do not apply over vitrified, glazed, non-absorbent or painted substrates.
- Protect metal surfaces, aluminium, aluminium profile, enamelled or painted pieces, glass, wood, etc.
- For other uses not specified on this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXCLEAR® TOP is supplied in 5 litres can and 25 litres drum respectively.

STORAGE

Twelve months in its original unopened container, in a dry place protected from direct sunlight and freeze, with temperatures above 5°C.

SAFETY AND HEALTH

MAXCLEAR® TOP is non-toxic but it is an abrasive compound in its composition. Wear protective gloves and security glasses during its application. In case of eye contact or skin contact, wash thoroughly with clean water but do not rub. If irritation remains, consult a doctor.

Safety Data Sheet of ***MAXCLEAR® TOP*** is available by request.

Disposal of the product and its empty packaging must be done according to official regulations by the final user.

TECHNICAL DATA

Characteristics of the product	
CE Marking, UNE-EN 1504-2 Description: Hydrophobic impregnation (H) for surface protection of concrete. Principles / Methods. Protection against ingress (1/1.1), Moisture control with coating (2/2.1) and Increasing resistivity by limiting moisture content with coating (8/8.2).	
Appearance	White liquid
Active component	Silanes and siloxanes in water
Density, (g/cm^3)	0,99 ± 0,05
Viscosity Copa Ford nº 4, (s)	< 20
pH	7,0 ± 0,1
Corrosivity	None
Flammability	Non-flammable
Application and curing conditions	
Application conditions, (°C)	5°C < T < 35°C
Drying time at 20°C, (h)	< 10
Consumption*	
Estimated consumption per coat / total application, (l/m^2) Low porosity substrates, concrete or mortar Medium-high porosity substrates, bricks, stone, tiles	 0,20-0,35 / 0,40-0,70 0,4-1,0 / 0,8-2,0

***** Consumption may vary depending on texture, porosity and other conditions for substrate, and application method. A preliminary test on-site will determine the coverage exactly.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. ***DRIZORO®, S.A.U.*** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.

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