



# MAXSEAL® SULFAT

## ANTI-SALT TREATMENT LIQUID FOR CONCRETE AND MASONRY SURFACES

### DESCRIPTION

**MAXSEAL® SULFAT** is an one-component, solvent-based silicon liquid product that once applied it penetrates by diffusion and capillarity into substrate to provide suitable barrier against salts, preventing and minimizing salt formation, and avoiding the appearance of efflorescences even in high concentrations, present in concrete or masonry units. It is ready-to-use on absorbent mineral substrates such as concrete, cement-based mortar and bricks.

### APPLICATION FIELDS

- Anti-salt treatment for concrete surfaces, masonry units, etc., in waterproofing and repairing works, protecting from damages caused by crystallization and pressure of salts on surface before applying waterproof coatings (**MAXSEAL®** range) or cement-based renders.
- Prevention and minimizing the appearance of efflorescences on the surface of substrates, so that avoid any possible damage caused by the crystallization of salts from the absorbent and porous substrates, such as: concrete, mineral mortars, natural or artificial (of a mineral base) stone, mineral paints, foamed concrete, concrete blocks, bricks, etc.

### ADVANTAGES

- Penetrates deeply into building materials.
- High alkali resistance.
- Quickly dry to the touch.
- Can be applied on slightly damp substrates.
- Permeable to water vapour, allows the substrate to breath, i.e. does not seal the pores neither forms a water vapour barrier.

### APPLICATION INSTRUCTIONS

#### Surface preparation

Surface must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. It must be clean and free of

paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to penetration of the product.

If surface previously is coated with lime or acrylic treatments, etc., these should be removed, leaving only the remains strongly bounded.

For cleaning and preparing the substrate, preferably in case of the smooth and/or poorly absorbent substrates, use sand blasting or high pressure water cleaning methods, not being desirable aggressive mechanical means.

Before anti-salt treatment liquid application, all voids, holes, honeycombs, cavities, cold joints, tie holes, and static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with the **MAXREST®** (Technical Bulletin No. 2) structural repair mortar to provide an even surface.

Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with **MAXREST® PASSIVE** (Technical Bulletin No. 12), while non-structural and surface iron elements must be cut to a depth of at least 2 cm and then covered with a suitable repair mortar. In order to optimise absorption for **MAXSEAL® SULFAT** inside the substrate, it should be applied preferably on dry surfaces.

#### Application

**MAXSEAL® SULFAT** is supplied ready to use. It is applied on a completely clean substrate, spraying it with a low pressure air-less spray equipment, from the bottom upwards until the substrate is fully saturated. Normally two coats will be required, maybe three, without letting too much time in between applications, i.e., once substrate is dry to the touch.

Once product has penetrated into the pores of the substrate, it reacts with the ambient humidity to lead a solid compound which perfectly seals the pores, preventing the progress of the calcium salts towards the surface.

Once the substrate is dry to touch, the subsequent application of a plaster or mortar should be done immediately after wetting the substrate. If the application were done after a few hours, a bonding problem between the treated substrate and the plaster or mortar may appear. Do not allow more than 20 to 30 minutes before applying the new mortar or coating.

## Application conditions

Do not apply with substrate and/or ambient temperature is at or below 5°C, or when temperatures are expected to fall below 5 °C within 24 h after application. Do not apply to frozen or frost-covered surfaces.

## Cleaning

All mixing and application tools, and equipment must be cleaned immediately with **MAXSOLVENT** after use. Once product cures, this can only be removed by mechanical means.

When applying at exterior surfaces and facades, avoid splashes or stains over glass or aluminium areas. In case that requires cleaning, use **MAXSOLVENT**® within an hour.

## CONSUMPTION

Estimated consumption for **MAXSEAL**® **SULFAT** varies from 0,4 to 0,5 l/m<sup>2</sup> per coat.

These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly .

## IMPORTANT INDICATIONS

- Do not add solvent, thinners, additives or other compounds.
- Use on porous substrates with a minimum absorption capacity. Do not apply on substrates vitrified or enamelled, or treated

with water repellent agents. Do not apply on bituminous materials, wood or paints.

- Observe the drying time between **MAXSEAL**® **SULFAT** applications as well as before application of mortars, plasters or coatings.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

## PACKAGING

**MAXSEAL**® **SULFAT** is supplied in 5 litre can and 25 litre drum.

## STORAGE

Twelve months in its original sealed packaging. Store in a cool, dry and covered place, protected from moisture, frost and direct sunlight, with temperatures below 30 °C.

## SAFETY AND HEALTH

**MAXSEAL**® **SULFAT** is a flammable product so all storage, transport and handling precautions must be observed for this kind of product. Do not smoke in working areas and provide adequate ventilation. Keep away packaging from heat and ignition sources.

Skin and eye contact must be avoided. Safety rubber goggles and protective gloves should be used when handling and applying the product. In case of contact with skin, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXSEAL**® **SULFAT**

Disposal of the product and its packaging should be carried out according to the current official regulations and it is responsibility of the final user of the product.

## TECHNICAL DATA

Product characteristics	
General appearance and colour	Colourless liquid
Active chemicals	Mix of silicon compounds
Density, ISO 1675 (g/cm <sup>3</sup> )	0,79 ± 0,1
Flash point, (°C)	> 21
Flammability classification	2 <sup>nd</sup>
Application and curing conditions	
Application temperature for substrate and ambient, (°C)	> 5
Waiting time between mortar/coating applications at 20 °C (h)	< 20-30
Cured product characteristics	
Reduction to water vapour permeability, DIN 52615 (%)	≥ 5
Consumption*	
Consumption per coat, (l/m <sup>2</sup> )	0,4 – 0,5

\* These figures are for guidance and may vary depending on porosity, texture and conditions for substrate, and application method. Perform a preliminary test on-site to ascertain the total consumption exactly under jobsite conditions.

## 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.



### DRIZORO, S.A.U.

C/ Primavera 50-52 Parque Industrial Las Monjas  
28850 TORREJON DE ARDOZ – MADRID (SPAIN)  
Tel. 91 676 66 76 - 91 677 61 75 Fax. 91 675 78 13  
e-mail: info@drizoro.com Web site: drizoro.com

ISO 9001  
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BUREAU VERITAS  
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