



MAXCRYL®

LIQUID ADMIXTURE TO IMPROVE BONDING, WORKABILITY AND CURING OF MORTAR AND CONCRETE

DESCRIPTION

MAXCRYL® is a water-based pure acrylic product to be used as an admixture to increase both physical and chemical properties of cement-based mortars and concrete. The fresh mixes prepared with **MAXCRYL®**, provide greater adhesion, workability, cohesion and water retention. Once hardened, **MAXCRYL®** improves the mechanical resistances to compressive and flexural strength, enhances abrasion and wearing resistance, and provides a reduction of water absorption by capillarity.

APPLICATIONS

- **MAXCRYL®** gives **MAXSEAL®**, **CONCRESEAL® PLASTERING** and other **DRIZORO®** mortars, greater adhesion to smooth surfaces and improves curing process.
- As an admixture for mortars in: structural and pavement repair, levelling of surfaces, protection and decoration of facades, etc.
- Preparation of a cement-based bonding slurry in repairs, screeds and/or levelling previously to pour concrete or mortar, on both vertical and horizontal surfaces.
- Improvement of quality for masonries and renders with low cost.
- Porosity sealer and primer applied directly on the surface.

ADVANTAGES

- Improves the workability of the mixture and reduces water demand with the same consistency, thus minimizes the shrinkage and risk of hydraulic cracks during the hardening.
- Enhanced the adhesion over polished surfaces or substrates specially absorbent.
- Provides a better curing under high temperature conditions, due to the higher water retention, reducing the risk of plastic cracks.
- Increase the abrasion and wearing resistance of pavement repair mortars.
- Resistant to U.V. rays, it does not turn yellow in outdoor. Increases the durability and weathering of mortar and coatings.
- Very good resistance to saponification and alkalinity of the cement and it does not deteriorate in immersion applications.
- Improves the impermeability of mortars, reducing the water absorption by capillarity.
- Solvent-free and non-flammable. Environment friendly.

APPLICATION INSTRUCTIONS

Surface preparation

The surface must be sound, clean, free of all traces of paint, dust, grease, efflorescence, loose particles, gypsum, plaster and mould release compounds. Recommended cleaning methods are mechanical methods, such as high water pressure and sandblasting.

Application as primer:

In order to seal porosity and get a surface with homogeneous absorption, on very porous substrates and/or with different grades of absorption apply pure **MAXCRYL®** as primer by brush, leaving no puddles. Allow it to dry 15 minutes approximately and once **MAXCRYL®** has been completely absorbed in the support, depending on porosity, apply the mortar or concrete.

The estimated consumption, depending on porosity, is about 0,100 a 0,200 l/m².

Preparation of bonding slurry:

For structural and pavement repair mortars, in order to apply a first layer that ensures the adhesion to the substrate, dilute 1 part of **MAXCRYL®** with 1 part of water and mix with the mortar until achieve a homogeneous slurry free of lumps. Saturate surface with water and apply the slurry by brush or boom, sealing all voids and holes. Before slurry dries, apply the repair mortar with its usual consistency for patching.

Preparation of the mortar:

Mix previously the cement and controlled aggregates in the required proportions. In a separate container dilute 1 part of **MAXCRYL®** with 3 parts of water, depending on the type work and requirements demanded.

Mix and apply it by trowel without pressing too hard. If several layers need to be applied, mark the surface of each layer with a trowel to improve the adhesion of the following one, which can be placed after the previous layer has set. Allow it to cure for seven days before painting over.

Trial mixes with other different rations can be made according to the specific work, to make sure that it fits to the requirements demanded.

MAXCRYL® ratios for different applications:

Make a dilution of **MAXCRYL®** and water, as mixing liquid with the indicated proportions for the following products:

- **MAXSEAL®** (Technical Bulletin n° 01), **MAXSEAL® FOUNDATION** (Technical Bulletin n° 08), **MAXQUICK®** (Technical Bulletin n° 05) and **MAXMORTER® CAL** (Technical Bulletin n° 195): 1 part of **MAXCRYL®** and 3 parts of water.

- **CONCRESEAL® PLASTERING** (Technical Bulletin n° 06): 1 part of **MAXCRYL®** and 3,5 parts of water.
- **MAXROAD®** (Technical Bulletin n° 27): 2 parts of **MAXCRYL®** with 1 par of water.

Applications conditions

Do not apply below 5 °C or if lower temperatures are expected within the following 24 hours. Do not apply on frozen surfaces. With high temperatures and/or wind, damp completely with water the substrate. Do not apply with temperatures above 35 °C.

Curing

Under windy or hot conditions (> 30 °C), usual curing procedures for cement-based products must be taken, such as water spray or covering with wet burlaps and/or plastic sheet, for at least the first 24 hours.

Clearing

Tools and equipments should be cleaned immediately with water after use. Once it sets can be removed only by mechanical methods.

IMPORTANT INDICATIONS

- It is advisable to make the previous trials to determinate the adequate proportions of **MAXCRYL®** in function with the application and requirements.
- For other uses not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXCRYL® is supplied in 2, 5 and 25 litres jerrycans, and in 220 litres drums.

STORAGE

Twelve months in its original unopened containers, in a dry and covered place protected from frost, with temperatures above 5 °C. In case of freezing it must be heated slowly, while being regularly stirred, until

achieve its usual liquid appearance without lumps. Avoid overheating.

SAFETY AND HEALTH

MAXCRYL® is not a toxic product in its composition but eye and skin contact must be avoided. Use gloves and safety goggles. In case of eye contact thoroughly clean with clean water, but do not rub. In case of skin contact, wash affected areas with water and soap. If irritation persists, seek medical attention.

It is available Safety Data Sheet of **MAXCRYL®**. It is non-corrosive and non-flammable.

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

TECHNICAL DATA

For further information, consult the Technical Department.

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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