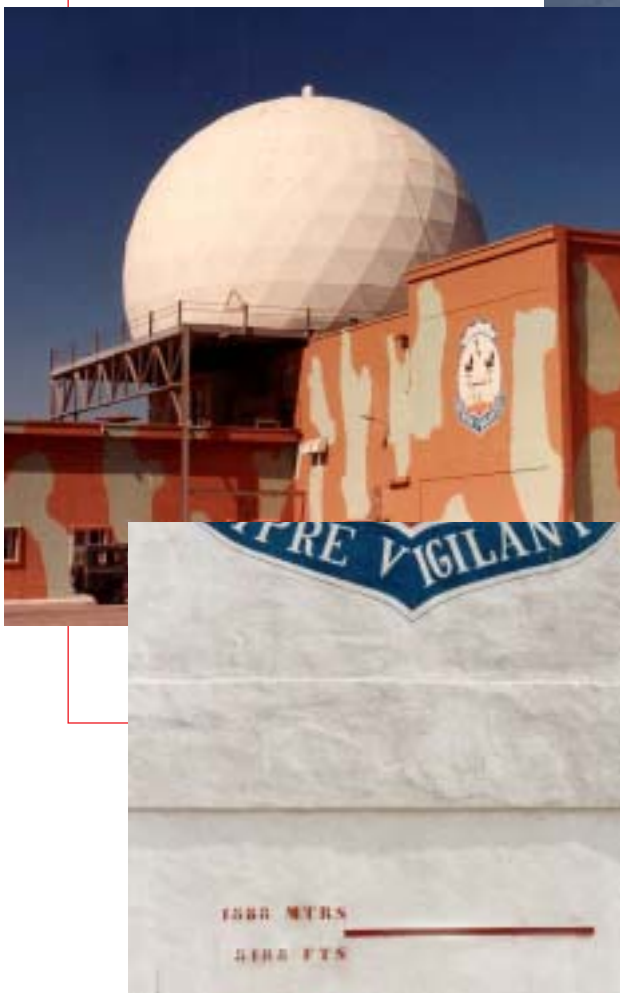




CONCRESEAL® PLASTERING

**WATERPROOF COATING WITH DECORATIVE TEXTURE
FOR PROTECTION OF CONCRETE AND MASONRY
FROM WATER AND MARINE ENVIRONMENT**



APPLICATION FIELDS

- Decorative and protective coating with minimum thickness for outdoor façades, whether applied by trowel or with a spray gun to substrates of prefabricated constructions made of concrete, mock concrete or roughed in with cement mortar.
- On concrete block partitions, it fulfils three functions: it acts as a cover, as waterproofing, and provides a decorative finish.
- Protection of concrete and masonry exposed to weathering, freeze-thaw cycles or abrasion by water flow, such as water treatments plants, dams, channels and tunnel lining.
- Protection of façades and buildings, new or for restoration, in marine environment.
- Finish for indoor walls in garages, basements decorative and protective single layer.
- As a finished surface for swimming pools and water drinking tanks. After applying **MAXSEAL®** (Technical Bulletin nº 01) for waterproofing, the surface is finished and protected with **CONCRESEAL PLASTERING**.

DESCRIPTION

CONCRESEAL® PLASTERING is a mixture of cements, carefully controlled silica aggregates and other mineral aggregates, designed for waterproofing, levelling, protection and decoration of concrete and masonry in one single layer with thickness between 3 and 5 mm.

ADVANTAGES

- Very good adhesion on the substrate.
- Avoid deterioration of the substrate due to the penetration of water and aggressive particles.
- It fulfils three functions: protection, waterproofing and provides a decorative finish in one single application.
- High abrasion resistance.
- It fills and seals holes, voids and honeycombs. Once sets, it becomes part of the substrate.
- Long lasting, no maintenance is required. Provides a durable waterproofing finish.
- Easy to apply, it can be sprayed.
- Adds uniformity maintaining architectural details of fluting, vertical lines, decorative mouldings, etc.
- Suitable for contact with drinking water.

APPLICATION INSTRUCTIONS

Surface preparation

The surface to be coated must be clean, sound and free of paint, efflorescence, greases, oils, foreign materials, dust as well as de-moulding agents, curing agents or any product, which could affect the adhesion. Clean surface by scrubbing with a wire brush, sandblasting or water blasting.

All cracks and fissures must be opened up at least 2 cm in depth and filled with a structural repair mortar such as **MAXREST**® (Technical Bulletin n° 04). Also honeycombs, voids or gravel pocket should be patched. In case of superficial non-structural steel elements are present, concrete around these steel elements must be removed and the steel elements cut to a depth of 2 cm and finally, the opened area must be patched or repaired. Expose all structural reinforcement affected by corrosion, removing all concrete around them at a depth of 2 cm. These reinforcements should be cleaned of rust and scale and then, coated with **MAXREST**® **PASSIVE** (Technical Bulletin n° 12) oxide converter and anti-corrosive protection.

Mixing

Trowel application. A 25 kg bag of **CONCRESEAL**® **PLASTERING** require 1 l of **MAXCRYL**® and 3,5 l of water. Mixing is best done by mechanical means such as a slow speed mixing drill (400-600 rpm). Mix until a thick mortar free of lumps is achieved.

Spray application. A 25 kg bag of **CONCRESEAL**® **PLASTERING** require 2 litres of **MAXCRYL**® and 4,5 litres of water. Use a mechanical mean for mixing as above mentioned.

Application

Trowel application: Once repaired, the entire surface to be coated should be thoroughly saturated with clean water. Do not leave free-standing water on the surface before application. Using the trowel make sure **CONCRESEAL**® **PLASTERING** is firmly pressed into all voids and levelled. When **CONCRESEAL**® **PLASTERING** starts to set (from 20 to 30 min, depending on ambient conditions) the surface can be finished with a sponge, wood, plastic float or trowel, depending



CONCRESEAL PLASTERING®

on the desired texture. A solution of one part of **MAXCRYL®** and three parts of clean water must be used to wet the sponge in the final process of finishing. Do not use only water.

Spray application: Previously, dampen the surface and then, spray one layer of **CONCRESEAL® PLASTERING**, covering an area from 6 m² to 8 m². Once material has been sprayed and if holes, pores, etc., are present, use a trowel or float in order to fill them and afterwards start the second layer application maintaining the same distance from the surface.

Double back over the surface with a light even spray application or additional applications as needed to provide a uniform texture.

A colour finish if required can be achieved with the acrylic coating **MAXSHEEN®** (Technical bulletin n° 17) with either smooth or texture finish.

For negative water pressure conditions or water immersion, **MAXSEAL®** should be used previously as waterproofing coat and after 7 days of curing time apply **CONCRESEAL® PLASTERING** as finish.

To prevent shadowing of struck or deep masonry joints or areas with unequal absorption, apply a light coat of **MAXSEAL®** with **MAXCRYL®** in the mixing liquid over the entire surface to be treated, in order to obtain a more regular and homogeneous surface, and wait for 7 days before coating with **CONCRESEAL® PLASTERING**.

Application conditions

In winter, do not apply **CONCRESEAL® PLASTERING** below 5 °C or if such temperatures are expected within 24 hours after the application. Do not apply on frozen or frosted surfaces and do not wet the surface in excess.

For applications with hot temperatures and windy condition, i.e. summer time, the surface must be dampen with plenty of water.

Curing

For a better curing, apply a fine mist water spray the first hours after placing **CONCRESEAL® PLASTERING**. Allow the coating to cure at least for 7 days at 20 °C and 50% R.H. before water immersion. Lower temperatures and higher relative humidity increase the curing time.

Cleaning

All tools and equipments should be cleaned immediately with water after use. Once it hardens, can only be removed by mechanical means.

CONSUMPTION

Approximate consumption is 1,7 kg/m² per mm thickness. This estimate consumption vary depending on roughness and porosity of the substrate, a preliminary test on-site will determine consumption exactly.

IMPORTANT INDICATIONS

- Never use leftovers from previous mixes.
- Do not add cement, aggregates or any other compound to **CONCRESEAL® PLASTERING**.
- Do not exceed the mixing ratio recommended.
- Do not use a high speed mixing drill or overmix the mix.
- For further information, consult our Technical Department.

PACKAGING

CONCRESEAL® PLASTERING is supplied in 25 kg bags. It is available in white and pearl grey colour.



STORAGE

Twelve months in its original unopened packaging. It must be stored in a dry and covered place, protected from humidity and freezing, with temperatures above 5 °C.

SAFETY AND HEALTH

As all cementitious materials, **CONCRESEAL® PLASTERING** is an abrasive product, and both rubber gloves and safety goggles must be used to prepare and apply the mixture. In case of eye contact, rinse thoroughly with abundant clean water for at least 15 min, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritations persist, seek medical attention.

For further information, Safety Data Sheet of **CONCRESEAL® PLASTERING** is available by request.

Disposal of the product and its empty containers must be made according to official regulations. Final user must make this disposal.

CONCRESEAL PLASTERING®

TECHNICAL DATA			
Density hardener material (g/cm ³)	2,02 ± 0,05		
Maximum size aggregate (mm)	0,8		
Open time at 20 °C (minutos)	30		
Dynamic modulus of elastic (MPa) ASTM C -215	24.500		
Mechanical resistance (MPa)	Flexural	Compression	
	7 days	5,3	24,2
	28 days	6,4	31,0
Abrasion resistance Test conducted on dry material using silica sand as an abrasive agent	Length (m)	Weight applied (kg/cm ²)	Wear (mm)
	500	0,51	9,4 ± 0,5
	500	0,21	4,5 ± 0,5
	1000	0,21	10,0 ± 0,5
Adhesion, 28 days (MPa)	Pull-off		Splitting
	Rough concrete	MAXSEAL	Smooth concrete
	0,94	0,81	0,8
Capilarity water absorption (%)	0,55		
Capilarity coefficient (c), (g/dm ² min 1/2) NF B 10-502	0,10		
Accelerated aging test.	After the test, the product did not crack, come away or show any noticeable changes in colour.		
Suitability for contact with drinking water	Approved		
Impact resistance 1 kg steel ball	Height (m)	Impact Energy (Julios)	Diameter of damage (cm)
	1,0	9,8	1,33
	1,5	14,7	1,41
	1,8	17,6	1,60

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®** reserves the right to introduce changes without prior price. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. 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.

C/ Primavera 50-52.
Parque Industrial Las Monjas
28850 TORREJÓN 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

ISO 14001



n° ESPMDD001812

Reproduction, manipulation by computer, and transmission in whole or in part in any form or by any means (electronically, mechanically, by photocopying, recording, or otherwise) without the prior written consent of the copyright owner are prohibited.