

DRACOSEAL 2

DRACOSEAL 2 IS A WATERPROOF, CEMENT TWO-COMPONENT, AND OSMOTIC COATING. IT HAS A LOW ELASTIC MODULUS.



DRACOSEAL 2 is a two-component osmotic cement waterproofer. It is ideal for cellars, tanks, pipes and conduits, elevator shafts, basins and walls.

It takes advantage of an osmotic action and it penetrates the outer layer of your surfaces. It forms a coating that is resistant to positive and negative hydraulic force and it develops maximum adhesion.

In compliance with Legislative Decree 21.3.73, it is non-toxic and may come into contact with foodstuff (BIOLAB Certification no. 95/938.B2).

ADVANTAGES

DRACOSEAL 2 is an easy-to-apply waterproof coating. It fills and seals cavities and pores. It has an "osmotic" effect so that your walls can "breathe". Additionally it provides an attractive and decorative finish. DRACOSEAL 2 is useful because:

- ✓ It gets waterproof and it is resistant to standard and negative water pressure.
- ✓ It does not need any special application equipment.
- ✓ It improves heat insulation, as dry walls maintain their insulating capacity.
- ✓ It develops very high surface resistance.
- ✓ It is very resistant to environmentally aggressive agents.



FIELDS OF APPLICATION

DRACOSEAL 2 should be used for houses and industrial buildings, and in particular for:

- ✓ Waterproofing cellars, lift shafts, basins, reservoirs, pools, interior, exterior and retaining walls.
- ✓ Waterproof coatings for walls of cement block, concrete, aerated concrete, etc.
- ✓ Waterproof coatings for structures prone to the "sandblast" phenomenon, such as columns, kerbs, railings and Jersey barriers exposed to roadway and motorway vehicle traffic.
- ✓
- ✓ Waterproof coatings for water and drinking water reservoirs, cement channels, sewers.
- ✓ Restoring and renewing houses and industrial buildings.

USAGE

CLEANING SURFACES

- ▶ **Remove all loose concrete or masonry material** as well as grout slurry from the surface to be rewed. To do this, carefully use a chisel or high-pressure water cleaner and try to avoid any damage to your surface.
- ▶ **Remove stains, bloom or impregnation** of oil or grease, paint, lime, dust, dirt, etc.
- ▶ **Remove any previous restoration work** if it is definitively damaged or deteriorated.

SURFACE PREPARATION

- ▶ **Brush / sweep off or sandblast** large surfaces to remove dust completely. First of all fill every hole or cavity of more than 1 cm.
- ▶ **Surface water infiltration** Water seepage or infiltration in your surfaces can cause your mortar to be washed out before it completely hardens. For this reason, stop water leak before applying DRACOSEAL 2. To do this, use HYDROPLUG quick-setting mortar or specific drains to divert water flow.

MIX PREPARATION

Pour component B into a proper mixer. Gradually add component A and stick to the specific mix proportions. Mix at least for 4 - 5 minutes until your mix is well-blended with no lumps. Let it rest for about 5 minutes, then mix it again for a few minutes before application. Check for both components to be properly mixed without any remaining material on the internal walls or the bottom of your mixer.

APPLICATION

Use water to wet the your surfaces areas before applying DRACOSEAL 2. DRACOSEAL 2 is formulated for paintbrush, roller or sprayer application. Choose your type of brush on the basis of your application needs.

To reduce brush strokes and get a more finished look, use a 15-cm long tapered nylon brush for decorators. Dip your brush into your mix, apply a thick coat, then run the brush back over it to level it. Do not spread your mix as you would paint. Brush just in one horizontal direction to achieve an attractive finish. Use DRACOSEAL 2 according to the manufacturer's recommendations. DRACO Italiana S.p.A.'s qualified personnel will provide technical assistance upon request.

PACKAGING AND STORAGE

DRACOSEAL 2 comes packaged in 25-kg bags and 6-kg canisters.

This product keeps its features unchanged for one year if properly stored in its original package in dry rooms.



AVAILABLE COLOURS

DRACOSEAL 2 is available in white similar to RAL 9010 and grey similar to RAL 7038.

FEATURES

| | COMPONENT A | COMPONENT B |
|--------------------------|------------------------|---------------|
| PHYSICAL STATE: | Powder | Liquid |
| SOLID RESIDUES AT 105°C: | 100% | 24% |
| APPARENT BULK DENSITY: | 1.3 kg/l approximately | - |
| PACKAGING | 25-kg bag | 6-kg canister |

APPLICATION SPECIFICATION

| | |
|--|--|
| MIX COLOUR: | grey or white |
| MIX RATIO: | A:B=25:6 |
| MIX BULK DENSITY: | 2 Kg/l |
| CONSISTENCY (UNI EN 1015-3) | 225 mm |
| APPLICATION TEMPERATURE: | from +5 to +35°C |
| OPERATING TEMPERATURE: | from -20°C to +80°C |
| MIXING TIME (HARDENING TIME - UNI EN 13294): | beginning 6 hours - end 8 hours (23°C, 50% R.H.) |
| COMPLETELY HARD: | about 28 days at 20°C |
| FOLLOWING COATS (20°C, R.H. 65%): | about 6 hours on the basis of surfaces |
| ACCESSIBLE AFTER (20°C, R.H. 65%) | about 7 days |
| QUANTITY USED | about 19 kg/m ² per cm of thickness |

PERFORMANCE FEATURES 20°C, 50% R.H., 2 mm of thickness REQUIREMENTS IN COMPLIANCE WITH EN 1504-2 FOR COATINGS (C) MC AND IR STANDARDS

| PERFORMANCE FEATURE | TEST | RESULTS |
|---|----------------|--|
| CONCRETE ADHESION: (SURFACE TYPE MC 0,40 – W/C RATIO = 0,40) IN COMPLIANCE WITH EN 1766: | EN 1542 | 2.5 MPa |
| COMPRESSIVE STRENGTH (MPa) | EN 12190 | 42 MPa after 28 days |
| VAPOUR PERMEABILITY: – EQUIVALENT AIR THICKNESS SD (m): | EN ISO 7783-1 | SD < 0.9 m class I (vapour permeability) |
| CAPILLARY ABSORPTION (kg x m⁻² x h^{-0.5}): | EN 13057 | 0.048 kg x m ⁻² x h ^{-0.5} |
| HEAT RESISTANCE MEASURED AS CONCRETE ADHESION MC 0.4 IN COMPLIANCE WITH EN 1542 (MPa) UNI EN 1766: - FROST - THAW CYCLES WITH DEFROSTING SALTS: | EN 13687/1 | 2 MPa |
| RESISTANCE TO ARTIFICIAL WEATHERING (UV RAYS AND CONDENSATION FOR 2,000 HOURS) | UNI EN 1062/11 | No visible change |
| THERMAL EXPANSION COEFFICIENT | UNI EN 1770 | 2.13·10 ⁻⁵ K ⁻¹ |
| HYDRAULIC FORCE RESISTANCE (POSITIVE) | UNI EN 12390/8 | 7 bar (70-m water column) |
| HYDRAULIC FORCE RESISTANCE (NEGATIVE) | UNI 8298/8 | 2.5 bar (25-m water column) |
| RESISTANCE TO SEVERE CHEMICAL AGGRESSION | UNI EN 13529 | Sodium chloride at 30%: (class II: no Shore A reduction) Lead-free petrol (class II: no Shore reduction) Sewage treatment plant in Milan: (class II: no Shore reduction) |
| FLAME RESISTANCE: | EN 13501-1 | A1 |

SPECIFICATION ITEM



To waterproof all your surface areas, including the ones exposed to negative hydraulic force, stick to our instructions and recommendations to apply DRACOSEAL 2 in two consecutive coats. Our qualified personnel will provide you with technical support upon request. Your procedures and equipment should comply with our recommendations.