

Rurecoat 4

Silane based surface water-repellant and damp-proofer for walls

Product description

RURECOAT 4 is a silane-based water-repellent. By virtue of its special formulation, RURECOAT4 can be mixed with water to produce a micro-emulsion able of damp-proofing any micro-porous surface efficiently and in depth.

Typical applications

For the protection of:

- concrete structures in general;
- exposed concrete and masonry;
- plaster and surfaces painted with mineral emulsions;
- brickwork, natural and artificial stone;
- rough cast concrete (e.g., jetted to exposed aggregates).

Packaging ,storage, dosage, yield

- RURECOAT 4 is supplied in 1 and 5 kg cans;
- store sealed containers in a cool and ventilated environment (temperature no higher than +30°C);
- do not expose containers to direct sunlight;
- during transportation, ensure that current regulations on inflammable materials are properly observed;
- dosage is dependent on the absorbing power of the surface; as a guideline, 1 kg RURECOAT 4 will be sufficient to prepare 8 kg of emulsion, which could cover between 30 and 60 m² surface.

Use recommendations

a) Surface preparation

The wall to be treated should be cleaned thoroughly with a metal brush, sandblasting equipment or high pressure water jet, cutting back as far as necessary to give a stable surface free from any traces of mortar, dust, paint or other encrustations (avoid the use of organic solvents). If the surface is cracked or crazed, repair it with a suitable products (premixed mortar EXOCEM series).

RURECOAT 4 should not be applied to new concrete before one month after casting.

b) Emulsion preparation

Prepare the emulsion by pouring RURECOAT 4 into water while stirring: 1 litre of the product to 7 litres of water is the optimum rate of dilution. Prepare only a quantity of the solution sufficient for use on the same day. Do not use any emulsion that has been prepared longer than 16 hours before.

c) Application method

RURECOAT 4 is applied by brush (atomizer spray guns should be avoided), onto dry surfaces. Best results are obtained applying 3 or 4 coats, wet on wet.

d) Influence of the temperature

RURECOAT 4 must never be applied at temperature below +5°C, neither must the temperature drop below this value during the entire drying period.

e) Handling

RURECOAT 4 is inflammable and contains certain substances that could irritate the skin.

Take all necessary precautions (wearing gloves, goggles, masks, etc.). Ensure adequate ventilation when working in closed areas.

Do not dispose of surplus liquid by pouring it down drains.

f) Cleaning equipment

Emulsion that has not yet dried can be washed off with water. Dried deposits (several hours old) will require white spirit or nitro based thinners.

Properties

RURECOAT 4 is a product containing silanes, formulated in such a manner as to produce a highly stable micro-emulsion when diluted in water. The micro-emulsion is characterized principally by a composition of extremely fine particles (much finer than normal silicone emulsions), which are able to penetrate porous materials of any kind. When brought into contact with the mixing water, the chemical constituents of RURECOAT 4 are activated and made able to form bonds with the silicates present in most construction materials.

Surface treated with RURECOAT 4 become highly resistant to water penetration, a process that can provoke significant damages if not prevented, for the following reasons:

- dampness reduces the thermal insulation properties of a wall and therefore its capacity to function as a barrier;
- acid and saline solutions are able to soak into construction materials more easily, provoking corrosion, fracture or peeling;
- masonry ultimately begins to crumble as the result of repeated freeze and thawing cycles;
- moist conditions favour the growth of vegetable organism;
- damp is able to penetrate the interior of a building more easily.



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RURECOAT 4 also has the singular quality of being able to prevent the absorption of water without forming a continuous film. The emulsion penetrates the capillary structure of the surface to which it is applied by a process of meniscus reversal.

This absence of any skin or film is of special importance, in that materials treated with RURECOAT 4 can breathe normally,

Not recommended for

- horizontal surfaces,
- surfaces permanently in contact with/or under water.

Safety remarks

RURECOAT4 is inflammable and irritating to the eyes and skin.

Whilst this classification no longer applies in the diluted state, the usual precautions for chemical products should be taken nonetheless (wear gloves, goggles, etc.).

Surface quality and finish

RURECOAT 4 is a colourless and non-filming protective fluid.

Surfaces treated with RURECOAT 4 remain protected and preserved from degradation caused by aggressive environmental agents.

The waterproofing effect of RURECOAT 4 also prevents changes of colour in the external fabric of buildings caused typically by water absorption.

Revision 01/2009. The present edition cancels and replaces all the previous ones. The information contained in the present technical data sheet is based on our knowledge and experience and should therefore not be taken as our guarantee. Neither shall we be responsible for the utilisation of the product since the conditions under which it is used are beyond our control

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