

# SANOSAN 3in1

READY MIXED DEHUMIDIFYING PLASTER FOR  
RENEWING ALL TYPES OF MASONRY FOR  
MANUAL APPLICATION OR BY SPRAYING

*RENDER, ANTI-SALT AND REHABILITATION IN A SINGLE PRODUCT*



**DRACO**

**RENOVATION AND  
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LINE

BINDERS AND PRE-MIXED  
PRODUCTS  
FOR DEHUMIDIFYING  
PRODUCTS



**SANOSAN 3in1** is a special macro-porous dehumidifying plaster that is lime-enriched. It is highly breathable and ready to use for the dehumidification and rehabilitation of walls affected by rising damp. The macro-porous structure is ideal for dehumidifying walls subject to rising damp. With the application of **SANOSAN 3in1** it is possible to solve the typical problems of damp walls such as blistering and flaking of plaster due to the formation of salt bloom and high concentration of moisture. The same product can be used to render the substrate.

## BENEFITS

Plaster prepared with **SANOSAN 3in1** should be applied by installing a layer with a total thickness of at least 2 cm. **SANOSAN 3in1** is particularly suitable for the rehabilitation and dehumidification of damp and is:

- ✓ **IDEAL ON DAMP SUBSTRATES:** **SANOSAN 3in1** is effective even in the presence of high moisture concentration on the walls.
- ✓ **EASY TO USE:** **SANOSAN 3in1** is easy to install both manually and mechanically.
- ✓ **BREATHABLE:** **SANOSAN 3in1** has a porous structure that enhances the expulsion of interstitial moisture.
- ✓ **ANTI-SALT:** **SANOSAN 3in1** does not contain agents that react with sulphates thus preventing crystallization.
- ✓ **LOW WATER ABSORPTION:** **SANOSAN 3in1** limits the penetration of water thus preventing the formation of condensation in the macro-porosity.
- ✓ **SANOSAN 3in1** can also be used as an **anti-salt render**.



## USES

**SANOSAN 3in1** is ideal for installing dehumidifying and breathable plasters for:

- ✓ Ideal for the rehabilitation of existing masonry with high concentrations of humidity that are subject to salt bloom.
- ✓ Rendering and providing an anti-salt action and dehumidifying treatment of masonry with a single product.
- ✓ It prevents the formation of condensation and mould and on the walls for a more healthy environment.
- ✓ Applications both inside and outside on brick, tuff, stone and mixed masonry.

## APPLICATION PROCEDURE



### SUBSTRATE PREPARATION

- ▶ Before applying **SANOSAN 3in1** a few preliminary steps must be performed:
- ▶ Preparation of the surface: the surface must first be cleaned by removing loose parts, residues of existing plaster, salt incrustations, powder, oil, greases and paints in order to avoid reducing adhesion of the plaster;
- ▶ Clean the surface without using water to prevent any water dissolving further salts that may later crystallize on the surface;
- ▶ We do not recommend the use of chemical solutions that encourage the precipitation of salts, and thus might compromise the proper adhesion of the plaster;
- ▶ Cleaning must be performed by sandblasting or brushing, depending on the cohesion of the substrate. Subsequently remove all traces of dust with compressed air.
- ▶ Where the masonry is damaged it is necessary to remove the loose and flaking parts and perform a reconstruction of the section thickness.

### PRODUCT PREPARATION

**SANOSAN 3in1** can be mixed using a drum mixer or a drill with paddle. When the concrete mixer is running, pour in 5.5 - 6 l of water and slowly add **SANOSAN 3in1, mixing for at least 5 minutes** until the mix is uniform and smooth. Apply the product within 30 minutes of mixing.

### APPLICATION PROCEDURE

**SANOSAN 3in1** can be applied manually with a trowel and float or a plaster sprayer to produce a minimum thickness of not less than 2 cm. The substrate must be pre-moistened. **SANOSAN 3in1** can also be used as skim coat.

#### Manual application

- ▶ **Render:** use a trowel to apply **SANOSAN 3in1** evenly over the substrate while this is still damp to form a first skim coat of 0.5 – 1.5 cm. according to the final thickness required, without smoothing.
- ▶ **Plaster:** when the first coat is dry (12-24 hours depending on temperature and humidity) apply the second layer evenly, being sure to apply a total thickness of not less than 2 cm. Level the surface using a straight edge.

#### Application with a plaster sprayer

When using a plaster sprayer we advise pouring the plaster, which has been previously blended in the cement mixer, into the hopper of the plaster sprayer. Then spray onto the surface while carefully controlling the amount of air according to the required mortar flow.

- ▶ **Render:** load **SANOSAN 3in1** into the plaster sprayer and spray the product onto the surface while this is still damp. Apply a coat of between 0.5 and 1.5 cm according to the final thickness required, without smoothing.
- ▶ **Plaster:** when the render is dry (12-24 hours depending on temperature and humidity) apply the second coat evenly, being sure to apply a total thickness of not less than 2 cm. Level the surface using a straight edge.

If you need to install thicker layers, **SANOSAN 3in1** can be applied in layers up to 4 cm thick. We recommend waiting at least 24 hours between one coat and another.

### SURFACE FINISHING

When the cure is complete (at least 14 days) it is possible to finish with **RASOSAN TRASPIRANTE** and **SANOFARBE** or an alternative paint that will not limit the breathability of the system.

## PRECAUTIONS

The product must not be applied at temperatures below 5°C.

On cold days, work in the warmer hours and do not apply in the late afternoon or when temperatures are expected to fall below 5° C in the following 24 hours. On hot and/or windy days, the plaster must be kept damp, at least for the first 24 hours.

## PACKAGING AND STORAGE

**SANOSAN 3in1** is packaged in 25 kg bags

If kept in its original packaging and properly stored under cover in a dry place, the product maintains its characteristics for a year.



## PRODUCT CHARACTERISTICS

APPEARANCE	Powder
COLOURS	grey
MAXIMUM AGGREGATE SIZE	< 2 mm
PACKAGING	25 kg bag

## APPLICATION DATA

COLOUR OF THE MIX	grey
MIX WATER	5.5 - 6 l per bag (22-24% by weight)
SPECIFIC GRAVITY OF THE PLASTER	1200 kg/m <sup>3</sup>
AIR CONTENT	35 ÷ 40%
TEMPERATURE OF USE	+5°C ÷ +40°C
POT LIFE (20 ° C ° 50% RH)	30 minutes
TOTAL MINIMUM THICKNESS OF PLASTER	2 cm
CONSUMPTION	approx. 10 - 11 kg / m <sup>2</sup> per cm of thickness

## TECHNICAL SPECIFICATIONS



The special ready-mixed plaster **SANOSAN 3in1**, produced by Draco Italiana Spa is used to prepare a macro-porous, dehumidifying plaster for the rehabilitation of older walls even where salts are present. All instructions and precautions followed must comply with the recommendations given by the manufacturer: **Draco Italiana Spa**.

## FINAL PERFORMANCE

### PLASTERING MORTAR FOR INTERNAL/ EXTERNAL USE FOR REHABILITATION (R)

CHARACTERISTICS	TEST METHOD	REQUIREMENTS IN ACCORDANCE WITH EN 998-1	PRODUCT PERFORMANCE
COMPRESSIVE STRENGTH	EN 1015-11	CS II	1 N/mm <sup>2</sup>
WATER ABSORPTION DUE TO CAPILLARY ACTION	EN 1015-18	≥ 0.3 kg/m <sup>2</sup> after 24 h	> 0.3 kg/m <sup>2</sup> after 24 h
PERMEABILITY TO WATER VAPOUR	EN 1015-19	≤ 15	<15 μ
BONDING	EN 1015-12	Declared value and breaking form (FP)	0.2 N/mm <sup>2</sup>
THERMAL CONDUCTIVITY	EN 1745	tabulated value	0.35 W/mK
REACTION TO FIRE	EN 13501-1	Euroclass A1	A1