



F3 DEIDRO

**DEHUMIDIFYING
PLASTERING MORTAR**



*Technology leader for over 140 years
in the field of chemicals for
the building industry.*

FEATURES

Pre-mixed mortar which only requires mixing with water. It is cement and quartz sand based with the addition of air-entraining and hydrophobic agents to create water-repellent and transpiring plasters known as renovation plasters, because they are ideal for drying walls subject to rising damp and for preventing efflorescence and the growth of mildew.

The capillary system, inhibited by the hydrophobic action of the **ANTOL RISAN SYSTEM DEIDRO** plaster, prevents the capillary migration of water both from the atmosphere to the masonry and vice versa. Therefore, the plaster always remains dry. At the same time, the high porosity of the plaster facilitates the extraction of dampness from the wall in the form of water vapour.

If there are small quantities of hydro-soluble salts in the wall, **ANTOL RISAN SYSTEM DEIDRO** prevents efflorescence, maintaining the salts in solution inside the wall and preventing harmful crystallisation on the surface. In the event of large quantities of salts, the use of **ANTOL RISAN SYSTEM INTONACO WTA** is recommended.

APPLICATION RANGE

Its water-repellence and the water vapour transpiration make **ANTOL RISAN SYSTEM DEIDRO** ideal for the following:

- as an external plaster to protecting the base of old buildings against rising damp and efflorescence caused by small quantities of salts;
- as an internal dehumidifying plaster for basements subject to rising damp and efflorescence;

ANTOL RISAN SYSTEM DEIDRO is not recommended as a barrier against stagnant water, water under pressure and seepage (it is not recommended, therefore, as a foundation plaster).

INSTRUCTIONS FOR USE

Mixing water: approximately 17-19%, that is 4.25 - 4.75 litres per 25 kg bag. It is recommended that approximately 2/3 litres of water are added first and then the rest.

Mixing times at 20°C (these depend considerably on the RPM of the mixer and the ambient temperature; the lower the temperatures, the less time required):

- a) in a normal concrete mixer (pear-shaped): approximately 8 - 12 minutes
- b) in a silo (vertical axis mixer) or electrical mixer: approximately 5 minutes
- c) manual: approximately 5 - 7 minutes.

N.B. The mixture must become light and cellular.

The mix has to be used immediately; if it is left to rest more than 20 minutes, it has to be stirred again briefly, adding eventually small



PREMIXED DEHUMIDIFYING PLASTERING MORTAR

- **EXCELLENT BREATHABILITY**
- **GOOD WATER REPELLENCE**
- **MODERATE EFFLORESCENCE RESISTANCE**
- **OPTIMIZED POROSITY**

quantities of water in order to obtain the correct consistency.

Preparation of the substrate: For old walls, remove all the old plaster to a level just above (approximately 20 to 50 cm) the damp line. Fully remove all the crumbling grout between the bricks or the stone blocks and wash thoroughly with jets of water. Large cavities can be filled with bits of brick and normal plaster. If there is any efflorescence (normally sulphate and chloride-based or, in rare cases, nitrate-based), provided that these are modest, scrape it off and then apply the unmixed liquid product ANTOL RISAN SYSTEM ANTISALE for salt-proofing, using a flat brush or spraying at low pressure. Apply one thick coat (approx. 0.3 - 0.5 litres per m²). After 24 hours, apply an "open" (that is, non-covering) rendering coat of cement, sand and NEOPLAST LATEX diluted 1:2 with water (approx. 300 g/m² of NEOPLAST LATEX). For new walls, the rendering coat has no additives but is still applied in the same way ("open"). Apply a 2 cm coat of **ANTOL RISAN SYSTEM DEIDRO** to the setting but not hardened rendering coat. Finish the plaster by levelling it off with a rule or a straight-edge. Do not level off too finely or smoothly with a trowel to avoid closing the surface pores of the plaster. For internal walls, if required, finish off ANTOL RISAN SYSTEM DEIDRO with a fine lime-based mortar, applying the thinnest possible coats. For external walls, if necessary finish with ANTOL RISAN SYSTEM FINITURA. The **ANTOL RISAN SYSTEM DEIDRO** plaster should only be painted with silicon paints such as ANTOL RISAN SYSTEM PITTURA or strongly transpiring paints such as silicate-based paints. Lime or cement based paints are also suitable. For exposed walls, however, these products must also be subsequently impregnated with PROMURAL SILICON.

For further information, contact TORGGLER CHIMICA Spa's Technical Office.

WARNING

- Do NOT add cement or other types of binder.
- Do NOT apply at temperatures below +5 °C.

CONSUMPTION

Use approximately 28 kg/m² for a thickness of 2 cm.

STORAGE

Store in a dry, cool and protected area. If closed in the original bags, it can be stored for at least 12 months.

PACKAGING

25 kg bags

CERTIFICATIONS

EC Declaration of Conformity, including copies of official test reports, is available on request.

TECHNICAL DATA

% mixing water	17 - 19%
Consistency (DIN 18555 Part 2)	approx. 16 cm
Fresh plaster volume (DIN 18555 Part 2)	approx. 1.450 kg/l
Air content (DIN 18555 Part 2)	31%
Water retention (DIN 18555 Part 7)	90%
Workability decrease in consistency after 15 minutes	1.5 cm
Hardened plaster volume (DIN 18555 Part 2)	1.32 kg/l
Resistance to water vapour diffusion - μ (DIN 52615)	9
Resistance to compression β_d (DIN 18555 Part 3)	4.7 N/mm ²
Resistance to flexion β_{bz} (DIN 18555 Part 3)	2.3 N/mm ²
β_d/β_{bz} factor (requirement $\beta_d/\beta_{bz} < 3.0$)	2.1
Water absorption co-efficient W_{24} (DIN 52617)	0.6 kg/m ²
Water absorption depth	2 mm
Porosity	45%
Compression elasticity modulus (as per MIT 90)*	4,300 N/mm ²

* Torggler's internal methods (MIT) are available on request.

SPECIFICATION

ANTOL RISAN SYSTEM DEIDRO

Application of dehumidifying plaster on masonry subject to rising, capillary damp, classified according to EN 998-1 type R (such as Antol Risan System Deidro by Torggler Chimica Spa) with approximate consumption of ...kg/m².

RISAN RANGE



Torggler
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Technological products for building

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