



# DEUMIDIFICANTE UD

## Microporous dehumidifying plaster

**RIALTO DEUMIDIFICANTE UD** has been formulated and produced after years of testing under every condition in order to solve the problems created by damp walls and, as a result, inhabited environments. The particular physical structure of **RIALTO DEUMIDIFICANTE UD**, on account of its microporosity, allows the water in the wall to escape as water vapor. In this way, the salts do not reach the surface, as they have not been made soluble. Within the wall, as we know, the salts do not create any problems because, since they do not crystallize, they do not increase in volume. The high permeability of **RIALTO DEUMIDIFICANTE UD** is due to its microporous structure which creates a wide surface of contact with the air which leads to a continuous and definitive drying of the wall to which it is applied thereby making it sounder.

Unsound rooms treated with **RIALTO DEUMIDIFICANTE UD** are restored to optimum conditions. At the same time, **RIALTO DEUMIDIFICANTE UD** keeps exterior surfaces free from visible deterioration and intact for a long time.

### PURPOSES

Restoration of masonry and structures affected by dampness, even those with a high concentration of salts such as chlorides, nitrates, sulphates etc.

Suitable surfaces:

- brick walls
- stone walls
- mixed walls
- reinforced concrete walls

### TECHNICAL DATA

- specific gravity: 1.70 ± 0.02 kg/l
- covering capacity: 17 kg/m<sup>2</sup> per cm of thickness
- compressive strength (28 days): 18 N/mm<sup>2</sup>
- flexure strength (28 days): 4.10 N/mm<sup>2</sup>
- packaging: 25 kg (55 lb) polyethylene bags
- water vapor permeability:  
Sd=0.3 m for 3 cm thickness,  $\mu=10$

### WORKING INSTRUCTIONS

- remove old damaged plaster to at least 1m above the damp area
- clean old surfaces carefully removing loose material, chalk and foreign matter, such as old pieces of wood, which are not parts of the supporting structure
- apply a coat of **RIALTO ANTISALE SA** only if there is a high concentration of salts.
- when applying to very absorbent surfaces or when applying on hot windy days, wet surface a few hours before applying **RIALTO DEUMIDIFICANTE UD**

### PREPARATION

**RIALTO DEUMIDIFICANTE UD** is supplied in 25 kg (55 lb) polyethylene bags.

Prior to use add:

- 5 kg of Portland Cement
- 5 kg of air-hardening lime

The mixture can be made by hand or using a cement mixer making sure to add about 5-6 liters of water to each bag

### APPLICATION

- apply by hand or using a plaster sprayer. The minimum thickness should not be less than 2 cm.
- apply a thin roughing-in coat of **RIALTO DEUMIDIFICANTE UD**.
- after 1-2 hours apply the backfill of **RIALTO DEUMIDIFICANTE UD** making sure not to exceed 2 cm per coat. Apply while previous coat is drying.
- finally apply a finishing coat like our **RIALTO MALTA FINE FM** based on slaked lime and clean fine sand.
- in case of application on reinforced concrete surfaces, first coat must be prepared adding **RIALTO MATONAL** in proportion 1:3 to the mixture D
- do not apply in rainy weather, when temperatures are below 7°C (44°F) or higher than 30°C (86°F) and never on surfaces either frozen or overheated by the sun
- dispose of product with care
- dispose of waste through authorized waste disposal services

## FINAL PROTECTION

When using **RIALTO DEUMIDIFICANTE UD**, the final color and protection should be given using shades and coating which are very permeable to water vapor and, if possible, with a slaked lime base. (see **RIALTO EPOCA OTTOCENTO**, **RIALTO ANTIQUA**, **RIALTO DOMOSIL** tech sheets)

## COVERING CAPACITY

Coverage of **RIALTO DEUMIDIFICANTE UD** per square meter and per centimeter in thickness total 17 kg (8.6 lb/sq.ft./inch).

## PACKAGING

**RIALTO DEUMIDIFICANTE UD: 25 kg (55 lb) plastic bags**

**RIALTO MALTA FINE FM: 30 kg (66 lb) plastic bags**

**RIALTO ANTISALE SA: 5 kg (11 lb) plastic bags**

## REFERENCES

For further information regarding the product mentioned in the text, see the following technical sheets:

**RIALTO EPOCA OTTOCENTO**

**RIALTO ANTIQUA**

**RIALTO DOMOSIL**

**RIALTO ANTISALE SA**

**RIALTO MALTA FINE FM**

**RIALTO MALTA GREZZA GM**

For further help or information regarding the products in the **RIALTO** range contact your local dealer.

Every care has been taken to ensure that the information provided in this technical data sheet is accurate. **Harpo** is unable to guarantee results as it has no control over the conditions under which its products are applied.