



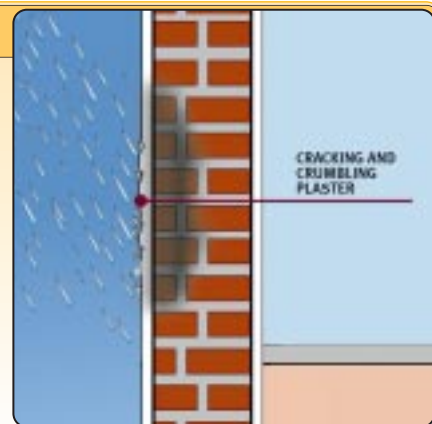
FIELD OF USE FOR 4th DIVISION PRODUCTS

IDROPLAN

WATER REPELLENT PLASTER CONTAINING LIME AND CEMENT FOR EXTERNAL AND INTERNAL RESTORATION APPLICATIONS AND PROTECTION OF FACADE MASONRY FROM DRIVEN RAIN

PROBLEM

Dampness and its effects can create conditions which are unhealthy and make dwellings or workplaces uninhabitable. Rising damp is a problem which very frequently affects the walls of buildings, especially old buildings and those of historical character, causing irreversible processes of plaster degradation. This process is caused by capillary absorption by porous construction materials when in contact with water from underground level. This has happened because proper consideration for the waterproofing requirements of the foundations was not taken at the time of the original construction. The effects are devastating, salts transported by water through the capillaries of the construction materials crystallise on the outer surfaces causing damp walls and the break-down of plasters and renders. This causes efflorescence, even causing the plaster to crumble and become detached due to the increasing volume of the crystals which form inside the micropores of the plaster.



DESCRIPTION

IDROPLAN is a ready-mixed plaster in powder form containing lime, cement, chalky inert material of selected granular size, additives which give better handling, water-repellence and adhesion to various types of surface.

IDROPLAN impedes the migration of atmospheric water in the wall and allows the evaporation of excess damp in the form of water vapour as a result of its uniformly distributed high porosity.

The damp-proofing of a wall affected by damp from capillary action is resolved due to the remarkable evaporation speed of IDROPLAN which

is greater than the speed at which the damp will travel.

FIELDS OF USE

IDROPLAN is particularly suitable for external restoration of damp walls where it is necessary to provide high water-repellence and protection from driven rain but at the same time allowing the wall to breathe.

COVERAGE

14 kg/m²×1 cm

PRECAUTIONS

- Minimum application temperature is +5°C.
- Avoid thermal shock when the plaster is drying.
- Bathe surfaces when temperature is high.
- Store in dry place.

SAFETY REGULATIONS

- While mixing, protect lungs by wearing suitable mask.
- Protect hands and eyes with gloves and goggles.
- Adequately ventilate the workplace.
- In case of contact with the eyes, wash thoroughly and immediately with water.

METHOD OF USE

Old plaster or rendering must be removed from damp masonry to about one metre beyond the level of damp which is evident. Remove any loose parts, oils, release agents, dust and dirt in general by stippling, brushing and high pressure water cleansing.

Fill any cavities with brick fragments and mortar with low cement content. If salt efflorescence remains after cleaning, treat with Deumisal anti-salt impregnation. 24 hours after the anti-salt treatment apply a rough coat with a mortar of semi-liquid consistency containing cement, in the advised proportions: sand 70% - cement 30% mixed with water and Collaseal (which improves bonding) in the ratio of 3:1.

24 hours after the application of the rough anchorage coat, plastering with IDROPLAN follows to

achieve an average advised thickness of 2 cm. When dealing with clean masonry where anti-salt treatment is not necessary, the rough coat can be omitted, passing straight away to the IDROPLAN plaster application. IDROPLAN is ready to use and needs only to be mixed with 20% of clean water (5 litres of water to each 25 kg sack). Mixing time in cement mixers must not exceed 3-4 minutes.

APPLICATION ADVICE

Apply IDROPLAN within one hour of mixing in one or more coats until the ideal thickness of 2 cm is reached. IDROPLAN mortar may be applied using automatic spray of the Continental or Turbosol type, as well as by trowel. Application does not require any special precautions other than those normally followed when using ordinary plasters. It has hand-

ling time which allows application on any architectural design. Recently treated plastered surfaces, especially in hot weather, must be kept damp with water spray to avoid the formation of cavities. In cold weather it is advisable to provide adequate protection of the plaster from frost. Joints of different elements must be reinforced with special alkaline resistant fibre glass mat which is immersed in the surface layer of the plaster. Outlets and holes in the masonry must have been previously sealed and to seal walls it is advisable to fit fillets in the corners and vertical guides on the walls.

FINISHES

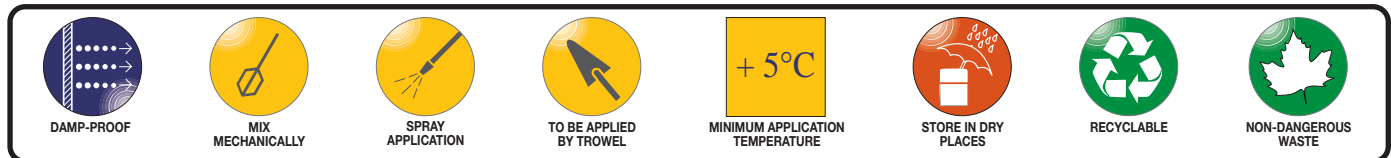
IDROPLAN may only be finished using coating which allow the masonry to breathe, Decorfine type (decorative mineral coating - see INDEX technical data sheet), with silicon paint or silicon based paint.

IDROPLAN

TECHNICAL CHARACTERISTICS

Appaerance	powder
Colour	grey
Apparent dry density	1,3 kg/litre
Apparent mortar density	1,65 kg/litre
Total porosity	36,50%
Water absorption coefficient	0,24 W
Resistance factor to the diffusion of water vapour	10 μ
Compression resistance	51 kg/cm ²
Resistance to flexing	29 kg/cm ²
Shelf life in original packaging	6 months

IDROPLAN complies with DIN 4108 requirements.



ADVANTAGES

- Good handling.
- Easy application reduces costs.
- Improved surface adhesion.
- Allows surface to breathe.
- Excellent water-repellence eliminates infiltration due to driven rain.
- Eliminates destructive action of salts and frost/thaw cycles.
- Restores the natural humidity of the masonry within ambient physiological values.

PRODUCT



PACKAGING

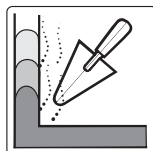
25 kg sacks.

index
Construction Systems

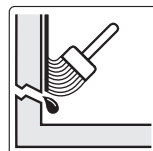
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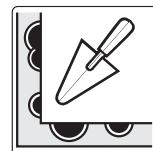
- FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE
- IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS



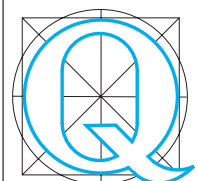
Restoration of damp masonry using damp-proofing renders



Waterproofing with vapour permeable cements



Concrete refurbishment



TOTAL QUALITY
Q.S. ISO 9001

ring the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX S.p.A at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Consider