ANTIPLUVIOL

Colourless water-repellent impregnator treatment based on silicon compounds in water solution

WHERE TO USE

Water-repellent and colourless surface treatment for cementitious renders, cellular concrete, facing bricks, natural and artificial stone against heavy rain.

Some application examples

- Repair of plastered walls exposed to rain.
- Colourless water-repellent protection of period buildings or those of special architectural value.
- Water-repellent treatment for walls, facebricks and natural stone.

TECHNICAL CHARACTERISTICS

Antipluviol is a colourless liquid based on silicon compounds in water ideal for impregnating all absorbent mineral materials used in building.
Applied to a porous surface, **Antipluviol** penetrates deeply and reacts with natural humidity to form a water-repellent layer inside pores and capillaries.
Thanks to this property, **Antipluviol** forms an efficient barrier against aggressive agents present in the atmosphere, which are carried into the material by rainwater.
Antipluviol does not form a film on the surface, therefore the material's permeability to water vapour is not modified and the appearance of the surface remains practically unaltered.
Antipluviol has excellent resistance to the alkalinity present in cement materials and to ultraviolet rays.

RECOMMENDATIONS

Impregnation with **Antipluviol** is unsuitable for waterproofing:

- horizontal surfaces (terraces);
- basements;
- water tanks;
- walls subject to rising damp carrying salts;
- lift wells and areas subject to water under pressure;
- gypsum surfaces;
- synthetic plasters and surfaces decorated with synthetic paint.

Carry out a preliminary test to ensure no colour changes take place on the substrate when **Antipluviol** is to be used on natural stones, coloured renders or on other types of substrates which show no uniform absorbency.

APPLICATION PROCEDURE

Preparation of the substrate

Before application, it is essential to remove all dirt, dust, grease, oil, paint, salt laitance, moss and weeds from the surface that might prevent **Antipluviol** from penetrating deeply.

For old surfaces, the choice of cleaning system will depend on the kind of dirt involved. Washing with cold water is generally sufficient.
Cleaning with hot water or steam is particularly useful if there is grease or oil on the surface.
If there is no surface dirt, scrub carefully with a scrubbing brush and remove dust with compressed air.
Whatever the cleaning system used, **Antipluviol** should only be applied to dry surfaces. If water is present, it is unable to penetrate deep down into the material.

Preparing the product

Antipluviol is ready to use and should not be diluted with water.

Applying Antipluviol

The efficiency and durability of **Antipluviol**'s water-repellent action depends on the depth of penetration of the product. This parameter is directly proportional to the absorbency capacity of the material to be treated and the amount of impregnator applied.
In order to apply **Antipluviol** evenly, we recommend using a back-pack spray gun for large surfaces, or a roller or brush. Apply a number of coats until the surface is completely saturated; apply each successive coat while the previous one is still wet.
On substrates with poor absorbency, be careful not to form layers of the product during application. Go over the surface with a sponge float if necessary while the product is still wet.
Once **Antipluviol** has been applied, the surface cannot be painted.

PRECAUTIONS TO BE TAKEN DURING AND AFTER APPLICATION

- Do not apply **Antipluviol** on damp substrates or on substrates that are not well cured.
- Do not apply **Antipluviol** if the temperature is lower than +5°C or higher than +35°C (the surface must be dry in all cases and must never be exposed to direct sunlight).
- Do not apply **Antipluviol** if the level of humidity is higher than 85%.
- Do not apply **Antipluviol** if it is about to rain or in windy weather.

CLEANING

Tools used for impregnation can be cleaned with water.

CONSUMPTION

The consumption rate is heavily influenced by the absorbency of the substrate, and varies approximately from 0.20 to 1 kg/m^2.
Listed below is a number of materials with their typical consumption rates:
- facing bricks: 0.50-0.75 kg/m^2
- conventional render: 0.50-0.80 kg/m^2
- tuff stone: 0.50-1.00 kg/m^2
- cementitious smoothing layers: 0.20-0.40 kg/m^2
- marble: 0.20-0.50 kg/m^2

PACKAGING

Antipluviol is available in 25 and 5 kg plastic drums.

STORAGE

Antipluviol can be stored for 24 months a dry place, well away from flames and sources of heat at a temperature between +5°C and +30°C. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	fluid liquid

Colour:	transparent
Density:	approx. 1.02 g/m³
Dry solids content by weight:	approx. 5%
Brookfield viscosity:	approx. 10 mPa·s (shaft 1 - 100 revs)

APPLICATION DATA	
Dilution ratio:	ready to use
Surface drying time:	1-2 hours
Temperature range:	from +5°C to +35°C

FINAL PERFORMANCES	
Capillary action water absorption coefficient W_{24} (EN 1062-3) [kg/(m²·h$^{0.5}$)]:	
– facing bricks:	0.04 (15.60 saturation)*
– conventional render:	0.05 (10.40 saturation)*
– tuff stone:	0.07 (6.80 saturation)*
– cementitious smoothing layers:	0.38 (15.60 saturation)*
	** The figures in brackets refer to the same substrate not treated with **Antipluviol***
The product is considered as class III according to EN 1062-3 standards with a value of W_{24} < 0.1, which corresponds with low water absorption	

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our web site www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

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