ANTIPLUVIOL S

Solvent-based extremely high-penetration water-repellent protective coating, ideal for low-absorbent surfaces



BENEFITS AND FEATURES

- Self-cleaning effect
- Reduces the adhesion of mosses and algae
- Excellent protection from rainwater and atmospheric moisture
- Breathable with natural effect
- Excellent UV resistance

WHERE TO USE

Colourless, extremely high-penetration water-repellent surface treatment, for the protection of low-absorbent substrates and compact natural stones such as marble, granite, limestone, sandstone, and split-face stone and unglazed ceramic tiles from rainwater and atmospheric moisture.

Antipluviol S, can also be applied on absorbent substrates, including natural and engineered stone, bricks, renders, and cement- and/or lime-based skim coats, to achieve greater penetration depth than water-based products (**Antipluviol** and **Antipluviol W**). When used on these latter substrates, a higher consumption rate must be expected.

Some application examples

- Protective treatment against rainwater and atmospheric moisture for walls coated with renders and/or covered with low-absorbent materials.
- Colourless water-repellent protection for existing façades, including those of historical or architectural value.
- Water-repellent treatment of exposed masonry constructed with low-absorption building materials.
- Protective treatment against carbonation of high-density exposed fair-faced concrete.

TECHNICAL CHARACTERISTICS

Antipluviol S is a colourless liquid based on silanes and siloxanes in solvent, characterized by a high capacity to penetrate all low-absorbent building mineral materials, making them water-repellent.

Antipluviol S penetrates deeply and reacts with the natural moisture within the material to form a hydrophobic layer inside the pores and capillaries, thereby repelling rainwater and atmospheric moisture.

Because of this property, **Antipluviol S** is an effective protective treatment against aggressive atmospheric agents that are carried into building materials by rainwater without altering its aesthetic appearance. The

water-repellent treatment with **Antipluviol S** also enhances the façade's self-cleaning effect and reduces the adhesion of moss and algae.

Antipluviol S does not form a film, so it does not alter significantly the water-vapor permeability and does not change the appearance of the treated surface.

Antipluviol S exhibits excellent resistance to alkaline substrates found in cementitious building materials and to ultraviolet radiation, and maintains all its water-repellent characteristics unchanged over time.

Antipluviol S complies with the principles defined in EN 1504-9 ("*Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and evaluation of conformity. General principles for the use of products and systems*"), and the requirements of EN 1504-2 ("*Surface protection systems for concrete*") for class: surface protection systems – hydrophobing impregnation, (H) - Protection against ingress (1.1) (PI) + moisture control (2.1) (MC) and increasing resistivity (8.1) (IR) (ZA.1a).

RECOMMENDATIONS

Treatments with **Antipluviol S** are not suitable for:

- horizontal surfaces, such as terraces and flat roofs (use **UltraCare Stain Protector W** or **UltraCare Stain Protector S**);
- walls subject to rising damp with salt transport;
- basements affected by negative-side moisture;
- elevator pits or any type of structures subject to water under pressure;
- basins or reservoirs containing water;
- gypsum surfaces;
- synthetic renders or surfaces finished with synthetic coatings.

Carry out a preliminary test to check for color changes in the substrate when using **Antipluviol S** on natural stones, coloured renders, or other surfaces with uneven absorption.

On semi-gloss or polished stone with very low absorbency (e.g. travertine), it is recommended to carry out a preliminary absorption test with **Antipluviol S** to ensure that the product is absorbed within a short time (approx. 10 minutes).

For hydrophobizing treatments on concrete, use a product from the **Planiseal WR** range.

APPLICATION PROCEDURE

Preparation of the substrate

Before carrying out the water-repellent treatment of surfaces, it is essential to remove dirt, dust, grease, oil, paint, salt efflorescence, moss, and weeds, which can prevent the penetration of **Antipluviol S** in depth.

Although washing the surfaces with low-pressure water may be sufficient, it is recommend to use one of the detergents from the **UltraCare** range, such as **UltraCare HD Cleaner** or **UltraCare Multicleaner** (see the relevant technical data sheets).

If the surface is clean, it can simply be brushed with a stiff brush and then blown with compressed air to remove any dust.

Regardless of the cleaning method used, **Antipluviol S** must be applied only on dry surfaces, since the presence of water hinders the product's penetration.

Preparation of the product

Antipluviol S is ready to use and must not be diluted with water or solvents.

Application of the product

For application of **Antipluviol S** over large surface areas, the use of a manual backpack sprayer is recommended. For smaller surface areas or areas with numerous openings (e.g. windows), the use of a roller or brush is recommended instead.

The treatment can be carried out in a single coat, depending on the actual absorbency of the surface to be treated and the environmental conditions.

The effectiveness and durability of the water-repellent effect depend on how deeply the protective product penetrates the substrate.

This parameter is directly related to the absorbency of the substrate to be treated and the amount of product applied.

After the application of **Antipluviol S** it is no longer possible to paint or coat the surfaces. Painting operations must be completed before applying the water-repellent treatment.

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

- Do not apply **Antipluviol S** on damp substrates or on substrates that are not fully cured.
- Do not apply **Antipluviol S** if the temperature is lower than +5°C or higher than +30°C.
- Do not apply **Antipluviol S** in direct sunlight.
- Do not apply the product if it is about to rain or in windy weather.

CLEANING

Clean tools used to apply the product with solvents (for example, petrol, mineral spirits, etc.).

CONSUMPTION

The consumption ranges approximately from 0.1 to 1.0 L/m^2, depending on the absorbency of the substrate.

Below are some materials with their approximate consumption rates per single coat:

- Compact sandstone: 0.15–0.20 L/m^2
- Carrara marble: 0.10–0.15 L/m^2
- Sardinian granite: 0.10–0.15 L/m^2
- Limestone (Botticino): 0.08–0.10 L/m^2
- Exposed brickwork: 0.30–1.00 L/m^2
- Render or skim coat: 0.25–0.80 L/m^2
- Concrete blocks: 0.12-0.50 L/m^2

PACKAGING

Antipluviol S is available in the following package sizes:

- 1 L metal bucket
- 5 L metal bucket
- 10 L metal bucket

STORAGE

Antipluviol S can be stored for 24 months in a dry and covered place, away from sources of heat and naked flames, at a temperature between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

Complies with the following standards: - product certified according to EN 1504-2 standards (surface protection systems for concrete), 2+ compliance system;

- class according to EN 1504-2: surface protection systems - hydrophobing impregnation - Protection against ingress (1.1) + moisture control (2.1) and increasing resistivity (8.1) (ZA.1a) (H, PI - MC - IR principles)

PRODUCT IDENTITY	
Consistency:	liquid
Colour:	transparent
Density (EN ISO 2811-1) (g/cm³):	approx. 0.80 g/cm³
Active substance content:	9%
Brookfield viscosity:	approx. 5 mPa·s (spindle 1, speed 50 rpm)

APPLICATION DATA	
Drying time:	1 hours
Application temperature:	from +5°C to +30°C

Performance according to EN 1504-2 - System 2+, Class ZA.1a (H, Principles PI - MC - IR)

Performance characteristic	Test method	Requirements	Product performance
Penetration depth:	EN 1504-2, Table 3, No. 19	Class I: < 10 mm	4 mm - Compliant (Class I)
Water absorption:	EN 13580	Absorption ratio < 7.5%	2.6% - Compliant
Water absorption after immersion in alkali:	EN 13580	Absorption ratio < 10%	6.6% - Compliant
Drying rate for hydrophobic impregnation:	EN 13579	Class I: > 30 %	> 30% - Compliant (Class I)
Mass loss after freeze–thaw cycles in the presence of de-icing salts:	EN 13581	Δ cycles > 20	Treated: > 50 cycles Not treated: 9 cycles Δ > 41 - Compliant

Hazardous substances:	EN 1504-2	NA	Compliant

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.

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

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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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