



PHOTOCATALYTIC DOMOSIL

Decorative and protective photocatalytic siloxane paint, water repellent, characterized by a high water vapor permeability

RIALTO PHOTOCATALYTIC DOMOSIL is a smooth coating with matt finish. It is a single-can product made up of oligomeric siloxanes, lifelong fungicide-bactericide, select graded micronized inert inorganic pigments, titanium dioxide, nanometric elements and active ingredients for photocatalytic decomposition of main atmospheric/airborne pollutants.

Characteristic	Rialto Photocatalytic Domosil features	Method / Normative
White point	Excellent L 96,58; a -0,74; b + 1,26	Total coverage spectrophotometric reading
Hiding power	Excellent - Y = 99.90%	Unichim 1631
Dirt pick-up	Very low $\Delta L = 0,1$	UNI 10792
Vapor transmission rate	High	UNI EN ISO 7783-2:2001
Wet scrub resistance	Excellent	UNI 10560
Gloss/brightness degree	Matt	UNI 9389
Mould resistance	Yes	UNI 9805
Film formation at fixed low temperature	Good	UNI 10793
Pollutants' degradation	> 40%	Methylene Blue test (fluotest forte)

PROPERTIES

RIALTO PHOTOCATALYTIC DOMOSIL is marked by and stands out for the following characteristics:

- high water vapor permeability: 240 g/m²-24h (DIN 53122)
- $\mu=400$, Sd=0.08 m
- it is water repellent with outstanding weather resistance
- it is resistant to alkalis and acid rains, protects surfaces from dirt and dust and it is self-cleaning. Due to solar beam (U.V. rays) it promotes decomposition of benzene, formaldehyde, ammonia and gas compounds and helps to reduce bad smells.
- it is wash-resistant
- it is abrasion resistant
- It is not caustic
- it has very good adhesion (35 kgf/cm²)
- it has very good hiding power due to the use of nanometric compound
- it prevents the formation of mould
- it can be easily applied using either a paintbrush, roller or spray
- it is non harmful
- it is non-flammable
- specific gravity: 1.40 ± 0.03 kg/l
- pH: 8 ± 0.2
- viscosity: 7,500 ± 1,000 mPas
- dry residue: 59.00 ± 1.0% by weight

PURPOSES

RIALTO PHOTOCATALYTIC DOMOSIL guarantees a permanent surface protection against the weathering effects of water, the acid rains, while still allowing walls to breath and has a water repellent effect too.

It ensures an effective anti-pollution action and preserve from dirt the walls thanks to the transformation of pollutants compounds in water-soluble or inert ones; thus it prevents the walls to get dirty and malodorous

It has smooth matt finish which highlights the decorative effect.

Thanks to its properties and attractive appearance it is ideal both for new buildings and for those requiring water-repellency and permeability, combined to self cleaning properties.

Provided surfaces are sound and clean **RIALTO PHOTOCATALYTIC DOMOSIL** coating can be applied to:

- fine plasters
- concrete
- prefabricated elements
- bricks and tuff
- sound old paints
- surfaces smoothed down with **RIALTO WALLCEM**

WORKING INSTRUCTIONS

- prepare scaffolding so as to allow continuous application until architectural impediments are encountered (string-courses, corners, joints, etc.)
- apply a generous coat of anti-efflorescence water-repellent primer as **RIALTO ISOCAL** or **RIALTO DURASIL** to concrete, new bricks and well dried new plaster(left to rest for at least 28 days)
- on new traditional lime based plaster, apply a generous coat of **RIALTO ISOCAL** or **RIALTO DURASIL** only after plaster has dried for two months
- remove loose material from deteriorated plasters and smooth the surface with **RIALTO WALLCEM** before applying a generous coat of **RIALTO DURASIL**.
- if the surface is dusty or too absorbent, apply a priming coat of anti-efflorescence **RIALTO DURASIL** or **RIALTO ISOCAL** and leave to dry for at least 48 hours
- remove surface efflorescence from bricks or plaster and apply a generous coat of **RIALTO DURASIL** or **RIALTO ISOCAL** and leave to dry for at least 48 hours
- apply two coats of **RIALTO PHOTOCATALYTIC DOMOSIL**. After applying the first coat (diluted with 35% - 40% water) using a brush, leave to dry for at least 12 hours and then apply the second coat (diluted with 30% - 35% water)
- it is advisable to stir the product thoroughly when diluting
- dilute only the amount of product to be used within the following 12 hours
- wash brushes and equipment with water immediately after use
- do not apply in rainy and windy weather, when temperatures are below 7°C (44°F) and never on surfaces either frozen or overheated by the sun or in case of strong wind
- dispose of product with care
- dispose of waste through authorized waste disposal services
- store the product in a dry place at a temperature not lower than 5°C (41°F) or exceeding 30°C (86°F)

COVERING CAPACITY

The spreading rate is approximately 6 m²/l (240 sq.ft./gal) for two coats, based on finely spread plaster, but it can vary depending on the surface and the absorption rate.

PACKAGING

RIALTO PHOTOCATALYTIC DOMOSIL is available in 15 l containers.

COLOR RANGE

RIALTO PHOTOCATALYTIC DOMOSIL is available in white and shades obtained using inorganic pigments only.

It is advisable to work using the same production batch.

REFERENCES

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

RIALTO WALLCEM GRIGIO

RIALTO WALLCEM BIANCO

RIALTO ISOCAL

RIALTO DURASIL



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.