

Single-component water-based anti-condensation paint. Actively absorbs surface moisture to eliminate condensation risk.



DESCRIPTION OF THE PRODUCT

FEATURES: RD-Aquasorb is a single-component, water-based hygroscopic coating based on a styrenated acrylic dispersion, specifically designed for interior ceilings and walls subject to regular condensation.

The coating is designed for use on interior surfaces exposed to condensation and high humidity levels.

Its unique moisture-management mechanism actively absorbs water vapour from the ambient air before condensation forms on surfaces, preventing the appearance of watermarks, droplets and runoffs, and inhibiting mould growth.

Once the room is ventilated and humidity levels drop, the absorbed moisture is released progressively as vapour – restoring the coating's full absorption capacity. It is therefore important to have regular ventilation.

RD-Aquasorb is virtually odour-free, non-flammable and water-based, making it ideally suited for use in occupied spaces and sensitive environments.

⚠ RD-Aquasorb cannot be overpainted and is not suitable for permanently wet surfaces.

TYPICAL APPLICATION:

- ✓ Food industry: breweries, dairy factories, meat and fish processing facilities
- ✓ Commercial and domestic kitchens and bathrooms
- ✓ Technical rooms, plant rooms and cold storage facilities
- ✓ Industrial and agricultural buildings, cattle sheds with condensation issues
- ✓ Any interior space subject to regular high humidity and condensation such as:
 - Warehouses and logistics facilities
 - Parking garages and enclosed car parks
 - Ventilation ducts and HVAC systems
 - Water treatment and production plants
 - Industrial and manufacturing facilities
 - Sports arenas and large enclosed structures
 - Interior surfaces of wind turbine towers
 - Sea containers, railway wagons and transport units

KEY FEATURES & BENEFITS:

- ✓ Actively absorbs surface condensation – prevents drips, watermarks and runoffs
- ✓ Inhibits mould and biological growth
- ✓ Self-regenerating: releases moisture naturally as humidity drops
- ✓ Water-based, non-flammable, virtually odour-free
- ✓ Suitable for a wide range of substrates with appropriate primer
- ✓ Safe for use in occupied and food-industry environments
- ✓ Near-zero VOC level
- ✓ REACH compliant, PFAS, APEO and heavy metals free

SUBSTRATES:

- ✓ Concrete and plaster
- ✓ Steel (with appropriate primer)
- ✓ Plastics (with appropriate primer)
- ✓ Also suitable for many other properly prepared substrates

RECOMMENDED SYSTEMS

GENERAL PURPOSE APPLICATION

RD-Aquasorb can be applied directly on sound mineral surfaces or previously coated surfaces. The indicated coverage is theoretical. However, every situation may be different depending on the humidity level the room can take and the amount of ventilation available. It may therefore be necessary to apply more coats than indicated.

A primer is recommended in the following cases:

1. Porous mineral surface, total consumption will depend on porosity

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption \pm (**)	Total theoretical coverage \pm (**)
RD-Unifix		1	0,1 L/m ²	10 m ² /L 400 sq f/gal

2. Metal surfaces, weathered galvanized steel

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption \pm (**)	Total theoretical coverage \pm (**)
RD-Elastometal	175 μm 6 mils	1	0.4 Kg/m ²	2.50m ² /Kg 150 sq-f/gal

3. Aluminium, fresh galvanized steel, stainless steel

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption \pm (**)	Total theoretical coverage \pm (**)
RD-Monoguard	90 μm 3.5 mils	1	0.21 L/m ²	4.8 m ² /L 195 sq-f/gal

APPLICATION BY BRUSH OR ROLLER

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption \pm (**)	Total theoretical coverage \pm (**)
RD-Aquasorb	250 μm 10 mils	2	0.9 L/m ²	1.12 m ² /L 45 sq-f/gal

APPLICATION BY AIRLESS

Product	Minimum total dry film thickness in μm mils	Minimum number of coats (*)	Total theoretical consumption \pm (**)	Total theoretical coverage \pm (**)
RD-Aquasorb	280 μm 11 mils	1	1 L/m ²	1 m ² /L 40 sq-f/gal

(*) Number of coats

Depends on the application method, tools used and site conditions. Certain application methods may require additional coats. Achieving the specified dry film thickness in fewer coats is not recommended and may not be technically feasible.

() Theoretical consumption**

Values are theoretical and may vary depending on surface profile, shape, roughness, porosity, application method and site conditions. Higher consumption should be anticipated.

For project-specific recommendations, please contact your RD Coatings representative.

APPLICATION INSTRUCTIONS

APPLICATION CONDITIONS: Ambient temperature:

- Minimum: 5°C | 41°F – beware on condensation risks and slow drying
- Optimal: 12-25°C | 54-77°F

Relative humidity: **maximum 80 %**
Surface temperature: minimum **3°C | 5°F above dew point.**
Avoid application during winter conditions or periods with high condensation risk.

APPLICATION METHODS: Brush
Roller: polyamide 10-15 mm
Airless spray (recommended):

- Nozzle size: 0.018–0.024
- Pressure: 130-200 bar | 900-1900 psi

Note: Additional coats may be required depending on the application method.

SURFACE PREPARATION: General:
The substrate must be clean, dry, degreased, and free from dust, salts, oil, grease, and all non-adherent materials prior to application.
RD-Eco PowerClean is recommended as a pre-cleaning agent. Apply RD-Eco PowerClean, allow to react for 10–15 minutes, then rinse thoroughly using high-pressure water.

Where biological growth such as algae, mould or moss is present, the surface shall be treated with an appropriate biocidal wash to eradicate the growth at its roots.

Allow the surface to dry before coating.

When using a primer, consult the PDS of the primer with regards to the surface preparation.

Note: Surface preparation may affect finish and performance. Contact your RD Coatings representative for guidance.

DILUTION: Product is ready-for-use.

DRYING TIME: Touch dry: ± 1 hour
(20°C | 68°F) Recoatable: ± 4 hours – No maximum recoating window.
Drying times also depend on film thickness and ambient humidity.

CLEANING OF TOOLS: Water.

SPECIFICITIES: Mix homogenously with a paddle mixer at low speed.

TECHNICAL DATA

FINISH:	Matte
COLORS:	White.
DENSITY:	1.2 ± 0.05 Kg/L ± 8.3 lb/gal (US)
SOLIDS CONTENT:	In weight: 39 % ± 2 In volume: 28 % ± 2
VISCOSITY:	125 P ± 25 (Brookfield 20RPM)
VOC CONTENT:	< 105 g/L 0.008 lb/gal (US)
FLASH POINT:	Non-flammable.
STORAGE STABILITY:	24 months: keep away from heat and frost

PERFORMANCE STANDARDS & TEST RESULTS

Standard / Norm	Short description	Result
Internal tests	Water absorption expressed in L/m ²	One liter of applied RD-Aquasorb can absorb up to 370 ml of water per square meter.
Internal test	Water absorption expressed in fl oz/sq-f	One gallon of applied RD-Aquasorb can absorb up to 1.16 fl oz of water per square foot.
ISO 16000-6	Indoor air VOC emissions	A+
Living Building Challenge v4.0 - Red List	Restricted substances compliance	Compliant

SAFETY DATA

Information related to hygiene and safety can be found in the Safety Data Sheet available on request.

DISCLAIMER

These specifications are given for information. Since the manufacturer is not able to check the application of the products, he cannot accept any responsibility for it. This technical data sheet replaces all previous editions.