



## PRODUCT DESCRIPTION

AQUASCUD REFLEX is a solvent-free, ready-to-use, cold-cured, elastic, waterproofing coating based on acrylic resins in water emulsion.

The coating is semi-gloss white with a high solar reflectance index (SRI).



## PRODUCT APPLICATION

Coating for the waterproof thermal reflective finishing of flat, sloping, curved or complex shaped roofs, new or existing, even subject to continuous foot traffic.

On surfaces such as:

- Polymer-modified two-component liquid coatings
- Cured bitumen sheeting, galvanised sheet metal, fibreglass and fibre cement
- Waterproofing of screeds and cement floors in general
- Tiles, roof tiles, gutters and drainage channels in concrete, iron, aluminium, copper

## ADVANTAGES

- Significantly lowers the temperature of the coated surface, significantly reducing heat penetrating into the room and improving living comfort
- Reduces the energy consumption required for cooling the environment
- Fully complies with Italian M.D. 24 Dec. 2015 establishing SRI >75 on roofs with slopes <15%
- Excellent resistance to UV radiation
- Excellent adhesion to the surfaces
- Protects surfaces from high temperature fluctuations by reducing expansion/contraction of materials in favour of increased durability
- Excellent elasticity
- Quick and easy to apply

**PREPARATION AND APPLICATION** The preparation and installation data refer to normal environmental conditions (temperature +20 °C; relative humidity 60%).

### Preparing the surfaces

Thoroughly clean the surfaces by brushing or low-pressure washing to remove all traces of dust, dirt, salt deposits, efflorescence and loose parts.

In the case of bituminous substrates, however, the surfaces must be thoroughly cleaned and degreased with pressurised water.

For application on old, dusty screeds, use PROFIX 30 in advance (see relevant data sheet).

Guard all elements of discontinuity, joints between horizontal and vertical surfaces with a suitable Volteco sealing system.

In the case of structural expansion joints, please contact Volteco's Technical Service.

### Preparing the product

AQUASCUD REFLEX is ready to use, simply mix the product before use with a drill mixer at low speed.



Depending on the absorption of the substrate, environmental conditions and the application tool, the product can be diluted with up to 5% water by mixing with a drill mixer at low speed.

### Application

Apply AQUASCUD REFLEX in two coats by BRUSH, VOLTECO ROLLER or airless machine, with an interval between coats of at least 12 hours and for a total thickness of at least 0.5-0.6 mm, taking care to remove any dust and dirt that may settle on the first coat before applying the second.

Further coats can be applied in the same way.

In the case of micro-cracked substrates, insert the XNET mesh (see relative data sheet) in a first abundant coat of AQUASCUD REFLEX and cover with a second coat after 12 hours.

Protect it from rain for at least 12 hours.

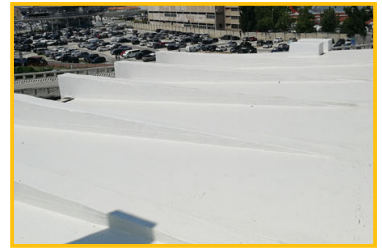
### Maintenance

In order to maintain the aesthetic and functional quality of the coating, if necessary, repaint the surfaces after they have been thoroughly cleaned and the product applied according to the application methods indicated in the previous chapter.

### Curing

Wait at least 12 hours after applying before you can carefully step on the treated surface (temperature +20°C; relative humidity 60%).

The curing times will be longer in the presence of rain and/or fog and/or a low temperature.



References available at [www.volteco.com](http://www.volteco.com)

### CONSUMPTION AND YIELD

0.6 - 0.7 kg/m<sup>2</sup> depending on unevenness and porosity of the substrate.

### PACKAGING AND STORAGE

AQUASCUD REFLEX is packaged in 16 kg pots.

The product must be stored in a dry place without being exposed to frost and heat (at a temperature between +5°C and +35°C).

### WARNINGS - IMPORTANT NOTES

Do not apply the product in strong sunlight.

Do not store the product in direct sunlight before application.

If AQUASCUD REFLEX is applied in unsuitable weather conditions, the curing times will be affected, thereby compromising the achievement of optimal aesthetics and performance characteristics.

The substrate must be dry and free of surface condensation; in the case of a concrete substrate, a relative surface humidity of no more than 3% (measured with a Storch-type electrical hygrometer) is permissible.

Wait at least 15 days for the substrate to cure in case of application on traditional screeds that have just been made.

Ensure the presence of adequate slopes and rainwater collection-disposal systems.

In the case of pressure washing, wait until the substrate is completely dry.

For applications on bituminous sheaths, check that they have cured for at least 6 months, in any case wait until the surface has completely oxidised.

Then carry out preliminary product adhesion tests in order to verify the adequate consistency of the base coat and adhesion to it.

If the existing sheath is defective, it should be repaired before the product is applied.

Direct application on bituminous membranes may result in alterations to the original colour of AQUASCUD REFLEX due to bitumen migration phenomena.

The preparation and installation data refer to normal environmental conditions (temperature +20°C; relative humidity 60%).

Clean tools with water while the product is still fresh.

**PHYSICAL AND TECHNICAL SPECIFICATIONS**

Specification	Values
Appearance	semi-gloss
Workability time at +20 °C and 60% RH	20'
Dry dust free	60'
Through dry	48 hours
Working temperature	-20 °C +80 °C
Application temperature	from +8 °C to +35 °C
Specific weight	1,2 kg/l

Feature	Test method	Performance requirements UNI EN 1504-2	Declared performance	Certified performance (**)
Bond strength	UNI EN 1542	≥ 0.80 MPa	≥ 0.80 MPa	1.40 MPa
Capillary absorption	UNI EN 1062-3	≤ 0.1 kg*m <sup>-2</sup> *h <sup>-0,5</sup>	≤ 0.1 kg*m <sup>-2</sup> *h <sup>-0,5</sup>	0.006 kg*m <sup>-2</sup> *h <sup>-0,5</sup>
Water vapour permeability (equivalent thickness: Sd)	UNI EN 7783-2	Class 1 - Sd < 5 m	Class 1 - Sd < 5 m	SD = 1.95 m
Crack Bridging Ability	UNI EN 1062-7 (static method)	A2 > 0.25 mm A3 > 0.50 mm A4 > 1,25 mm A5 > 2.50 mm	-	Class A4 > 1,25 mm
Reaction to fire	UNI EN 13501-1	Classification	-	Class E
Solar Reflectance Index (SRI)	ASTM E 1980-11			113
Solar reflectance (p)	ASTM E 1980-11			0.90
Walkability	TR007 EOTA		P3	

AQUASCUD REFLEX risulta conforme alla norma UNI 11928-1: 2023 come prodotto impermeabilizzante applicato liquido in situ e utilizzato come elemento di tenuta in un sistema di copertura continua (nuova o esistente) a vista praticabile solo per uso manutentivo.

**Initial requirements UNI 11928-1:2023**

Feature	Test method	Performance requirements	Declared performance
Reaction to fire	UNI EN 13501-1	F	F
Watertightness (water passage with 60 KPa)	UNI EN 1928	No passage	No passage
Water vapour transmission properties	UNI EN ISO 7789	Class	Class I
Direct tensile adhesion, concrete type MC (0.40)	UNI EN 1542	≥ 0,5 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>
Resistenza all'urto	UNI EN 6272-1	Class	Class I
Dynamic crack bridging (23 °C)	UNI EN 1062-7	Class B2	Class B3.2
Dynamic crack bridging at low temperatures (-5 °C)	UNI EN 1062-7	Class B1	Class B2
Slipping resistance	UNI EN 13036-4	Class III	Class III
Capillary absorption	UNI EN 1062-1	W ≤ 0,1 Kg/m <sup>2</sup> *h <sup>-0,5</sup>	W ≤ 0,1 Kg/m <sup>2</sup> *h <sup>-0,5</sup>

**Durability UNI 11928-1:2023**

Feature	Test method	Performance requirements	Declared performance
Heat ageing resistance 7 days at 70±3 °C (Watertightness)	point 4.1 of EN 1062-11:2003	No passage	No passage
Acceptance criteria after exposure	UNI EN ISO 4628-2 UNI EN ISO 4628-4 UNI EN ISO 4628-5	No swelling No cracking No spalling	No swelling No cracking No spalling
Frost/thaw Without thawing salts 20 cycles (Adhesion to substrate)	UNI EN 13687-3	≥ 0,5 N/mm <sup>2</sup>	≥ 1,0 N/mm <sup>2</sup>



Feature	Test method	Performance requirements	Declared performance
Acceptance criteria after exposure	UNI EN ISO 4628-2	No swelling	No swelling
	UNI EN ISO 4628-4	No cracking	No cracking
	UNI EN ISO 4628-5	No spalling	No spalling
UV (400 MJ/m <sup>2</sup> , 2460 hours) and Spray (492 hours)	UNI EN ISO 4892-3		
Acceptance criteria after exposure	UNI EN ISO 4628-2	No swelling	No swelling
	UNI EN ISO 4628-4	No cracking	No cracking
	UNI EN ISO 4628-5	No spalling	No spalling
Hazardous substances			See safety data sheets

The quoted data are obtained in a laboratory at +20 °C and 60% RH.

**SAFETY**

Refer to the related Safety Data Sheet.

<b>CE</b>	<b>VOLTECO S.p.a</b> Via delle Industrie, 47 - 31050 Ponzano Veneto (I)
	<b>23</b> <b>DOP 0040</b> <b>EN 1504-2:2005</b> <b>1370-CPR-1299</b> <b>AQUASCUD REFLEX</b> Protection systems of the concrete surface. Moisture content control (MC) and increased resistivity (IR) coating
Reaction to fire: Class E Water vapour permeability: Class I Capillary absorption and permeability to water: < 0.1 kg*m <sup>-2</sup> *h <sup>-0.5</sup> Adhesion: ≥ 1 N/mm <sup>2</sup> Thermal compatibility: • Part 1: Un/freezing cycles: NPD • Part 2: Thunderstorm cycles (thermal shock): NPD • Part 3: Thermal cycles without immersion in de-icing salt: NPD Crack bridging properties (method A): Class A4 Performance after exposure to the action of artificial atmospheric agents: NPD Methods of conditioning before testing (7 days at 70°C): NPD Linear shrinkage: NPD Coefficient of thermal expansion: NPD Cross cut: NPD Slip resistance: NPD Antistatic behavior: NPD Adhesion on wet concrete: NPD Hazardous substances: See SDS	

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**LEGAL NOTES**

Note for buyer/installer:

This document prepared by Volteco S.p.A. is provided as an aid and guideline for the buyer/installer.

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