



## PRODUCT DESCRIPTION

AQUASCUD 500 is a silane modified polymer-based waterproof coating paste, solvent-free, ready for use and cold-applicable.

It hardens by reacting with the ambient humidity creating an elastic elastomer membrane with excellent mechanical performance.

The coating is semi-glossy light grey with smooth finish; it is non-slip if combined with the specific GRIPPER filler (see under "Finish"), also available in various colours.



## PRODUCT APPLICATION

- Walk-on finish of Volteco waterproofing, in combination with AQUASCUD BASIC membrane on screed and flooring in general such as balconies, terraces, pedestrian walkways, sidewalks, stairways etc...
- Waterproofing of screeds and cement floors in general
- Repair of bituminous coatings either with smooth or slated finish

## ADVANTAGES

- Excellent walkability with possibility of non-slip finish
- High elasticity and capacity to bridge cracks in the surface
- Quick curing, regardless of rain, in 4 hours, also in conditions of high ambient humidity
- Excellent resistance to UV radiation
- Total adhesion to base
- Easy and fast application, self-levelling

## PREPARATION AND APPLICATION **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.

Restore missing parts or seal any cracks by applying a suitable Volteco cement-based levelling compound.

### **Recommendations prior to installation**

If you wish to obtain a walk-on coating with total waterproof performance it is necessary to prepare the following details and set-ups:

- **EXPANSION JOINTS AND EVIDENT CRACKS** Any marked expansion joints and evident cracks found on the surface must be covered with GARVO joint cover strip (see relevant technical data sheet), for which it is recommended to prepare a lowered application site of approximately 2-3 mm by means of shaping during the casting stages of the cement-based surface, or subsequent milling, in order to allow flush application of the tape



# AQUASCUD 500

- **CORNERS AND CONNECTIONS** Set the connections up with drains using the relative DRAIN MANIFOLD

Connect all of the wall/floor corners with AQUASCUD JOIN BT staff bead (see relative technical data sheet).

At low-height situations or specific fittings use AQUASCUD JOIN BT.

- **GUTTER** In the absence of perimeter walls, prepare the AQUASCUD LINE H.0 gutter along the edge of the roof (see respective technical data sheet) and respective special pieces.

## Preparing the product

AQUASCUD 500 is ready for use, simply shake well before use.

The product always remains usable, following any application, as long as it is stored in the perfectly closed aluminium container and in normal storage conditions.

## Application on AQUASCUD

Spread AQUASCUD BASIC on the AQUASCUD 420/430 mixture (see relevant technical data sheets), avoiding overlaps between adjacent sheets, taking care to join the edges with a gap of no more than 5 mm.

In optimal climatic conditions (room temperature +20°C; room humidity 60%) wait at least 2 hours in case of a support with AQUASCUD 420, and at least 48 hours in case of AQUASCUD 430.

Remove any roughness in the substrate including residues of the waterproofing mixture and seal the interspaces on the edges between adjacent AQUASCUD BASIC sheets with AQUASCUD 500.

Apply a single layer of AQUASCUD 500 (for a thickness of approximately 500-600 micron) using the appropriate SERRATED SPATULA (3x2 mm) until the AQUASCUD BASIC membrane is evenly covered in a continuous solution without interruptions.

In case of large surfaces, it is recommended to proceed by sectors, ensuring their perimeter coincides with any joint cover bands on the bottom.

## Application on cement-based surfaces

In the case of cement-based screeds and floors, generally apply two coats of AQUASCUD 500 at intervals of at least 24 hours (room temperature +20°C; ambient humidity 60%) even directly on the cement-based coating with the same application and base preparation steps described above. Remove any dust and dirt there may be on the first coat before applying the second one.

## Application on bituminous coatings

In the case of bituminous coatings, both with a smooth and slated finish, proceed by applying two coats of AQUASCUD 500 at intervals of at least 24 hours (room temperature +20°C; ambient humidity 60%) directly on the bituminous coating as described above. Carefully clean and degrease the surfaces with pressurised water beforehand, making sure you remove any dust and dirt there may be on the first coat before applying the second one.

## Non-slip finish with GRIPPER

If you wish to obtain a non-slip finish, apply the specific GRIPPER calibrated-grain size mineral filler to the fresh AQUASCUD 500 using a cup spray gun, sandblaster or by hand with 1 mm screen (1.2 in case of GRIPPER SPECIAL) proceeding in a continuous solution without interruptions.

In case of large surfaces, it is recommended to proceed by sectors, ensuring their perimeter coincides with any joint cover bands on the bottom.

The working time for GRIPPER applications is approximately 30 minutes (ambient temperature +20°C; ambient humidity 60%).

After at least 12-24 hours of curing, remove the excess filler exposing the rough surface, then spread evenly CRYSTAL (see relevant technical data sheet) in two coats with at least a 6-8 hour interval in normal conditions (room temperature +20°C; room humidity 60%) using the PLASTIVO ROLLER or a brush with medium-long bristles or an airless machine.

At the end of application, clean tools well with denatured ethyl alcohol or nitro thinner.

## Curing

Let the first coat dry at least 12- 24 hours in suitable environmental conditions (+20°C and 60% RH) before walking on the treated surface.



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

#### CONSUMPTION AND YIELD

Consumption, based on the flatness and type of surface, is as follows:

AQUASCUD 500 on AQUASCUD BASIC approx.  $0.60 \div 1 \text{ kg/m}^2$ .

AQUASCUD 500 on cement or bituminous base approx.  $0.80 \div 1 \text{ kg/m}^2$ .

GRIPPER inert mineral approximately  $0.90\text{--}1.4 \text{ kg/m}^2$  (also consider  $1 \text{ kg/m}^2$  of surplus product to obtain even coverage, which is subsequently recovered).

CRYSTAL approximately  $0.30 \div 0.34 \text{ l/m}^2$  depending on the roughness of the surface.

#### PACKAGING AND STORAGE

AQUASCUD 500 is available in a 5 kg bladder container.

The product must be stored in a dry place without being exposed to frost and heat (at a temperature between  $+5^\circ\text{C}$  and  $+25^\circ\text{C}$ ) or direct exposure to the sun before being applied.

#### WARNINGS - IMPORTANT NOTES

Do not apply AQUASCUD 500 should there be a probability of rainfall within 4 hours after the product is applied.

In the event of application of AQUASCUD 500 directly on cement surface, relative humidity of the base must not be above 3% (measurement by means of Storch type electric hygrometer).

On the other hand, if applying directly on bituminous coatings, carry out product adherence tests beforehand in order to verify the adequate consistency of the bottom coating and the adhesion to it.

Alterations of the original colour of AQUASCUD 500 are possible if applied directly on bituminous sheets due to bitumen seepage phenomena.

The preparation and installation data refer to normal environmental conditions (temperature  $+20^\circ\text{C}$ ; relative humidity 60%).

#### PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values
Appearance	paste
Specific weight	$1,2 \text{ kg/l}$
Application temperature	from $+5^\circ\text{C}$ to $+30^\circ\text{C}$
Working temperature	$-40^\circ\text{C}$ $+60^\circ\text{C}$

Specification	Test method	Performance requirements
Tensile strength	UNI EN ISO 527-3	$2.5 \text{ N/mm}^2$
Elongation at breaking point	UNI EN ISO 527-3	$> 80\%$
Water impermeability	UNI EN 14891	0,5 m
Water vapour permeability (equivalent thickness: Sd)	UNI EN 7783-2	$S_d = 0.2 \text{ m}$
Adhesion to the surface on cement-based surface	UNI EN 1542	$2 \text{ N/mm}^2$
Walkability*	TR 007 EOTA	P3

Specification	Certifying body	Test method	Performance requirements
Slip resistance*	Elletipi Srl	UNI EN 13036-4	Dry: 66 PTV Wet: 47 PTV

\* with GRIPPER

#### SAFETY

It is recommended to use a mask and gloves while working.

Accidental contact with eyes, rinse thoroughly with water and seek medical advice.

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