

**PRODUCT DESCRIPTION**

AQUASCUD System 430 is a waterproofing system, offering a definitive solution and without having to resort to demolition, for balconies, terraces, roof decks and all flat surfaces, even with flooring installed. It is a waterproof protective shield against possible causes of infiltration.

Quick, practical and extremely elastic, it is a definitive solution to cutting costs and inconvenience. AQUASCUD System 430 consists of:

- AQUASCUD 430, elastic two-component waterproofing compound;
- AQUASCUD BASIC: elasticised microporous water-repellent polypropylene membrane, which is roughened thanks to special processing, allowing perfect adhesion to the waterproof coating;
- AQUASCUD JOIN, elasticised staff bead;
- AQUASCUD JOIN BT, adhesive staff bead;
- AQUASCUD LINE, a draining gutter profile to finish and protect flooring edges;

**PRODUCT APPLICATION**

- Waterproofing of flat roofs, balconies, terraces and sloped floors, with flooring already installed, with waterproofing surface that can remain exposed protected by coatings (tiles, concrete floors, green roofs, etc.)
- Substrates in general, also lightened with expanded clay

ADVANTAGES

- Applicable on existing floor and surfaces with micro-cracks
- No demolition and disposal
- Definitive intervention with a thickness of just 3 mm
- Excellent adhesion to all cement, masonry, ceramic and marble surfaces
- Resistant to U.V. radiation
- It maintains deformability to -20 °C
- Excellent protection of screed against the action of un/freezing and efflorescence
- Allows for direct application of the flooring
- Low environmental impact thanks to reduced CO₂ emissions, very low Volatile Organic Compound emissions (VOC), components obtained from recycling processes
- The product helps earning points for LEED certification

PREPARATION AND APPLICATION Preparing the surfaces

Remove all dirt and any other material that could compromise adhesion of AQUASCUD.

Restore very irregular surfaces with FLEXOMIX 30 mortar (see the related technical data sheet).



AQUASCUD SYSTEM 430

If the surfaces are old or dusty, apply PROFIX 30 primer (see the related technical data sheet) with a roller, a brush or by spray, ensuring it does not bleed on the surface due to the surface not absorbing it. With surfaces that are partially water-soaked, with a relative surface humidity of no more than 8% (measured with a Storch electric hygrometer) apply a single coat of PROFIX 60 primer (see relative data sheet) with brush or roller.

Preparation of installation parts and set-ups

- **EXPANSION JOINTS** Any expansion joints on the surface must be covered with GARVO joint cover strip (see relative data sheet), which, with structural expansion joints, needs to be omega shaped and glued on the sides with the AQUASCUD mixture
- **CORNERS AND CONNECTIONS** Set the connections up with the drains using the relative DRAIN MANIFOLD Connect all of the wall/floor corners with AQUASCUD JOIN staff bead, placing the rubber-coated part in contact with the surface using AQUASCUD sealing material. Alternatively, it is possible to use the AQUASCUD JOIN BT adhesive strip (see relevant technical data sheet) laid on a cured AQUASCUD layer. At low-height situations use AQUASCUD JOIN BT
- **GUTTER** Along the external perimeter, set up the AQUASCUD LINE draining gutter profile and relative special pieces (see relative data sheet) to finish and protect the tiled edge
- **ELASTIC REINFORCEMENT** Prepare the AQUASCUD BASIC membrane, pre-cut to the required measurements, so that it can be applied with the first coat of waterproofing mixture

Preparing the mixture

Stir the liquid component in its container, then pour it into a bucket.

Gradually add the AQUASCUD powder component while continuing to stir; mix for 2÷3 minutes with a whip-fitted drill until the mixture is smooth and free of lumps.

Application

Apply the first thick layer of AQUASCUD 430 on the surface, a minimum thickness of 1÷1.5 mm using a special 3.5 mm NOTCHED FLOAT or the Volteco NOTCHED SQUEEGEE, making sure the product penetrates well into the substrate and covers the surface completely (average consumption: 2÷2.5 kg/m² depending on the flatness of the surface).

Place the AQUASCUD BASIC membrane on the first coat of mixture in the following manner: proceed in sectors, immediately laying out the AQUASCUD BASIC membrane on the fresh AQUASCUD 430 mixture, making it adhere uniformly to the surface by pressing with the Volteco NEEDLE ROLLER.

AQUASCUD BASIC membrane becomes darker when it is rolled on. This indicates correct application and proper impregnation and adhesion.

Overlap the edges of the AQUASCUD BASIC membrane by at least 10 cm and weld them together with the AQUASCUD mixture.

Where the horizontal and vertical surfaces join, make sure the AQUASCUD BASIC membrane adheres to the horizontal edge of the previously laid AQUASCUD JOIN joint band.

Never fold AQUASCUD BASIC vertically, always join it to the AQUASCUD JOIN joint band.

The AQUASCUD BASIC membrane must be interrupted in the centre line of the GARVO strip when this covers expansion joints.

If there is an AQUASCUD LINE gutter profile along the perimeter, overlap AQUASCUD BASIC by at least 6 cm over the profile anchoring flap.

In optimal climatic conditions (ambient temperature +20°C; ambient humidity 60%) wait for a period of at least 24 hours to apply a 2nd layer of the AQUASCUD 430 mixture guaranteeing a minimum thickness of 1 mm (average consumption 1.5 kg/m²) with a ROUNDED FLOAT, SQUEEGEE or ROLLER by Volteco being careful to evenly cover the AQUASCUD BASIC membrane.

In any case, it is recommended to only apply the second coat when the previous one is dry and hardened.

For applications on balconies or on small surfaces (less than approximately 4 m²), it is possible to omit the use of the AQUASCUD BASIC membrane.

Always apply the AQUASCUD BASIC membrane on a substrate with marked cracks.

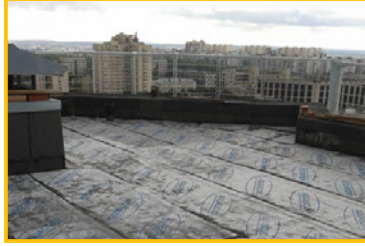
Finishing

Ceramics must be laid on AQUASCUD System 430 after at least 2 days, with a large grout gap and C2-type adhesive (preferably with an S1 and S2 deformation class).

Line grouting works must be carried out with CG2 class cement-based grouting mortars.

AQUASCUD System 430 can be left exposed if subjected to occasional foot traffic or finished with the X-RAPID levelling compound, CRYSTAL POOL paint or AQUASCUD 500 (see respective technical data sheets).

If finishing with AQUASCUD 500, wait at least 2 days after applying AQUASCUD BASIC.



References available at www.volteco.com

CONSUMPTION AND YIELD 3.2÷3.5 kg/m² depending on the roughness of the surface.

PACKAGING AND STORAGE AQUASCUD 430 is supplied in 18 kg packages (12 kg in powder + 6 kg in liquid). The product must be stored in a dry place without being exposed to frost and heat (at a temperature between +5°C and +30°C) or direct exposure to the sun before being applied.

ACCESSORIES	-
<i>AQUASCUD JOIN</i>	Elasticised staff bead 25 m package
<i>AQUASCUD JOIN BT</i>	Staff bead with adhesive butyl rubber 20 m package
<i>AQUASCUD BASIC</i>	Water-repellent elasticised microporous membrane 30 m ² package
<i>AQUASCUD LINE</i>	Draining profile with gutter (version H.0 and H.10) 13.5 m package
SPECIAL PIECES	-
<i>JOIN BT 90° Corner / JOIN BT 270° Corner</i>	Pre-shaped staff bead, with adhesive butyl rubber 10 pc package
<i>DRAIN/EXHAUST MANIFOLD</i>	Rubber textile element Ø 85 mm and Ø 100 mm 2 pc package
<i>SQUARE GARVO</i>	Rubber textile element 40x40 cm Single package
<i>AQUASCUD CORNER 90°</i>	Corner for AQUASCUD LINE (version H.0 and H.10) Single package
<i>AQUASCUD CORNER 270°</i>	Corner for AQUASCUD LINE (version H.10) Single package
<i>AQUASCUD FIXY</i>	Connecting joints for AQUASCUD LINE (version H.0 and H.10) Single package
APPLICATION TOOLS	-
<i>NEEDLE ROLLER – 7 kg</i>	-
<i>PLASTIVO ROLLER</i>	-
<i>ROUNDED PLASTERING TROWEL</i>	-
<i>NOTCHED TROWEL 3.5 mm</i>	-
<i>NOTCHED SQUEEGEE</i>	-
<i>SQUEEGEE (rubber-coated)</i>	-

WARNINGS - IMPORTANT NOTES

- Do not add water to the mixture or alter the mixing ratio.
- The product must be used within 20 minutes after mixing.
- Do not use AQUASCUD 430 in thicknesses greater than 2 mm per coat.
- Wait at least 15 days for the substrate to cure under normal conditions when applied on traditional screeds that have just been made.
- Do not apply the product if the temperature is higher than +30°C or lower than +5°C or if it is expected to drop below this temperature within 24 hours.
- The curing times will be longer in the presence of rain and/or fog and/or a low temperature.
- Applying AQUASCUD on surfaces exposed to the sun will drastically reduce the product's workability time.
- Applying AQUASCUD on a humid surface that is extensively exposed to the sun can cause the formation of vapour blisters on the surface.
- These do not alter the final characteristics of the product.
- Vapour blisters can also form if the 2nd layer is applied on the 1st layer if it has not cured enough or is



too thin.

Protect wet product from rain.

Humidity in the substrate causes a significant delay in the curing process.

Set-up suitable anti-root protection in the case of roof gardens.

AQUASCUD BASIC can remain free of AQUASCUD protection mixture up to a maximum of 7 days.

Wait at least 2 days before applying any type of protective or finishing layer.

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values
Appearance	Grey powder - white latex
Working temperature	-20 °C +60 °C
Liquid/powder mixing ratio	1/2
Workability time at +20 °C	20'
Specific weight	> 1.6 kg/l

Specification	Test method	Performance requirements	Declared performance
Crack Bridging Ability (+23 °C)	UNI EN 14891 Met. A.8.2	> 0.75 mm	> 1 mm
Crack Bridging Ability (-20 °C)	UNI EN 14891 Met. A.8.3	> 0.75 mm	> 1 mm
Crack Bridging Ability (+23 °C)(with Aquascud Basic)	UNI EN 14891 Met. A.8.2	> 0.75 mm	> 2 mm
Crack Bridging Ability (-20 °C)(with Aquascud Basic)	UNI EN 14891 Met. A.8.3	> 0.75 mm	> 2 mm
Initial adhesion	UNI EN 14891 Met. A.6.2	> 0.5 N/mm ²	> 0.5 N/mm ²
Adhesion after immersion in water	UNI EN 14891 Met. A.6.3	> 0.5 N/mm ²	> 0.5 N/mm ²
Adhesion after heat application	UNI EN 14891 Met. A.6.5	> 0.5 N/mm ²	> 0.7 N/mm ²
Adhesion after un/freezing cycles	UNI EN 14891 Met. A.6.6	> 0.5 N/mm ²	> 0.5 N/mm ²
Adhesion after immersion in alkaline water	UNI EN 14891 Met. A.6.9	> 0.5 N/mm ²	> 0.5 N/mm ²
Water impermeability	UNI EN 14891 Met. A.7	150 KPa	150 KPa

Parameters subject to company Quality Control	Values AQUASCUD BASIC	Values AQUASCUD JOIN
Water impermeability	-	No passage up to 100 kPa
Elongation at breaking point	> 40%	> 20%
Resistance at breaking point	> 0.6 kN/m	> 267 N/5 cm

Specification	Test method	Certifying body	Values (g/l)
VOC content	Directive 42/2004/EC ISO 11890-2 ASTM D 6886-12	Eurofins 392-2015-00130902	2,7

SAFETY

This is a non-toxic product.

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

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



CE	VOLTECO S.p.a Via delle Industrie, 47 - 31050 Ponzano Veneto (I)
	18 0031-CPR-2018/10/09 EN 14891:2012 AQUASCUD 430 Two-component liquid waterproofing product modified with polymer (CM 02) for outdoor applications under ceramic tiles(applied with class C2 adhesive in compliance with EN 12004)
Initial tensile adhesion strength: $\geq 0,5 \text{ N/mm}^2$	
Tensile adhesion strength after water contact: $\geq 0,5 \text{ N/mm}^2$	
Tensile adhesion strength after heat ageing: $\geq 0,5 \text{ N/mm}^2$	
Tensile adhesion strength after freeze-thaw cycles: $\geq 0,5 \text{ N/mm}^2$	
Tensile adhesion strength after contact with lime water: $\geq 0,5 \text{ N/mm}^2$	
Water impermeability: No penetration and $\leq 20 \text{ g}$ weight gain	
Crack bridging ability under standard conditions (23°C): $\geq 0,75 \text{ mm}$	
Crack bridging ability at low temperatures (-20°C): $\geq 0,75 \text{ mm}$	
Hazardous substances: See SDS	

COPYRIGHT

© Copyright Volteco S.p.A. - All rights reserved.

Information, images and text found in this document are exclusive property of Volteco S.p.A.

They may change anytime without prior notice.

Updated versions of this and other documentation (specification, brochure, other) are on www.volteco.com.

In case of translation text may contain technical and linguistic inaccuracies.

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.

This does not take into consideration the details of each single operational context, for which Volteco S.p.A. will not be held liable.

This does not change and does not extend the obligations of Volteco S.p.A.

It may vary and the installer is therefore required to update his/her information prior to each application by referring to www.volteco.com.

The before-after sales technical/trade information of the sales network have the same validity as this document.