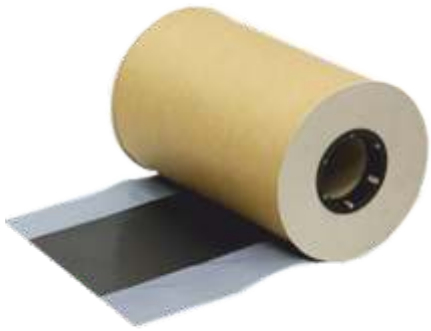
AquaThene® CORNER TAPE

Bituminous, self-adhesive, sealing corner tape
with vulcanizing strips to be used with the membranes AquaThene®

- **for fastening and sealing of details, insulation and drainage layers as well as expansion joint tapes**
- **perfect adhesive properties**
- **cold-glueing**
- **flexible, crack bridging**
- **easy application**
- **solvent-free product.**



Product description

AquaThene CORNER TAPE is the self-adhesive sealing tape 1.5 mm thick and 300 mm wide, made of bituminous compound modified with polymers, on the groundwork of HDPE film laminated transversely and resistant to tearing. The tape rims are covered with strips of pure bituminous compound 5 cm wide that are subject to vulcanization in contact with the adhesive surface of the bituminous membrane **AquaThene** to provide very tight and durable joint. The adhesive tape surface is protected with the protective paper as a standard. The tape is solvent-free and it does not contaminate underground waters. It can be used at temperature from -5°C. It is not resistant to prolonged exposure to UV radiation.

Intended use

AquaThene CORNER TAPE is designed to seal corners and edges of any type as well as pedestals and contact points of foundation plate with cellar walls; it is to be used together with the sealing membranes **AquaThene** - always from the moisture-pressure side.
AquaThene CORNER TAPE can be used on mineral substrates of any type such as eg. concrete, gas concrete, mineral plasters, brickwork, concrete blocks.

Preparation of the substrate

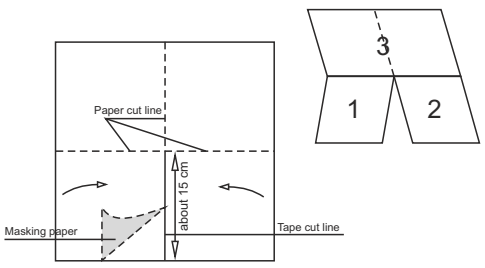
The substrate must be accordingly resistant, stable, even and without open cracks or sharp protruding elements. Sharp edges should be chamfered. Gaps, cracks and unevenness shall be filled and levelled.
The substrate surface should be cleaned of ice crystals, oil slicks, tar, mortar remainders, dust and flour.
The tapes can be stuck on dry or slightly moist substrates. Wet or damp substrates (visibly darker than dry substrates) or these covered with a water layer shall be protected with a sealing mortar layer to prevent water penetration from the substrate; possibly, you can wait until the substrate dries. Water presence between the substrate and the tape is inadmissible during assembly.
In case of very porous or uneven substrates and wherever the adhesion surface is lower than 80%, a levelling layer shall be made to avoid blisters.

Mineral substrates shall be grounded with **AquaThene S/U PRIMER** and, in case of temperature below +5°C - with **AquaThene W PRIMER**. Grounding of metallic or plastic substrates is not recommended.

Application

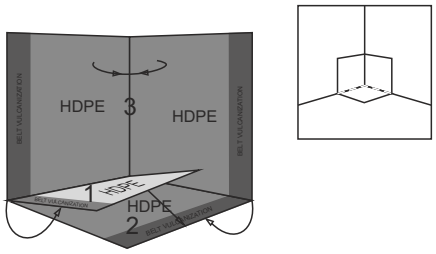
Start assembly of the tape when the primer is dry.
If the tape is to be applied in the early morning, make sure that there is no condensate on the grounded surface since the tape will not stick in presence of water. A possible water layer shall be dried or wait for water evaporation.
Unroll the tape so as the protective paper is at the bottom, cut to obtain bands of required length and roll it up again.
Insulating work using **AquaThene CORNER TAPE** shall be started from protection of internal and external corners with suitably cut tape pieces. The method of tape cutting and shaping is shown in the figures below.

Internal corner
Put the square patch (300 x 300 mm) of the tape with the HDPE film layer downward and vulcanizing strips on left hand and on right hand.
Cut the tape on the length about 15 cm - as shown in the Fig. 1 - and then cut the masking paper taking care that not to cut the bituminous layer.



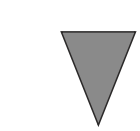
1. Corner patch with edge incision

So prepared fragment shall be shaped in the corner without the protective paper removal.
Remove the protective paper gradually from each of 4 fragments and stick to the substrate according to Fig. 2.

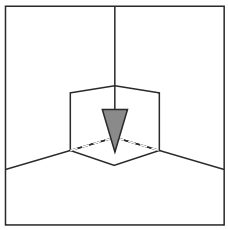


2. Patch arrangement in the concave corner

The protective film from vulcanizing strips shall be removed immediately before the next tape or membrane layer is stuck in.
Even the stuck tape carefully and press it to eliminate folds or bends and to provide good adherence do the base.
Then, cut out a small triangular piece of the tape and stick it in the corner as a strengthening element
(Fig. 3. and 4.)



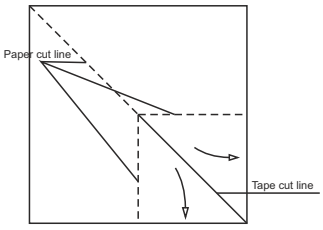
3. Strengthening wedge



4. Sticking the wedge in the concave corner

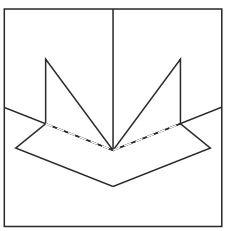
External corner
Put the square patch (300 x 300 mm) of the tape with the HDPE film layer downward and vulcanizing strips on left hand and on right hand.
The fragment shall be incised diagonally - from the square centre up to the square corner according to Fig. 5.
Cut the protective paper carefully, diagonally along extension of the incision carried out before as well as vertically and horizontally (according to Fig. 5), without incision of the bituminous layer.

I. The first patch



5. Corner patch with apical incision

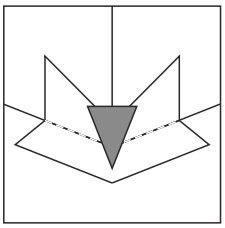
Put the so prepared tape fragment in the corner to be sealed and then remove the protective paper from each of 4 tape fragments and stick to the substrate (Fig. 6).



6. Patch arrangement in the external corner

At the same time, the tape shall be smoothed and pressed thoroughly to avoid folds or bends and to ensure good adherence.
Cut out a small triangular piece of the tape and stick it in the corner as a strengthening element (Fig. 7 and 8).

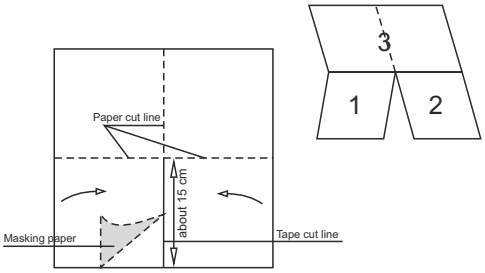
7. Strengthening wedge



8. Sticking the wedge in the external corner

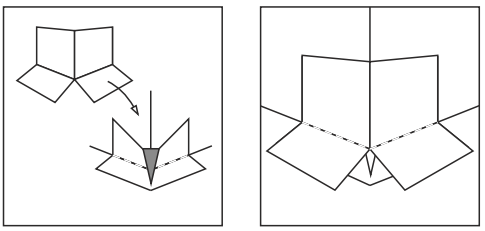
Then prepare the second piece of tape while putting it in the same way, with the film layer toward the substrate so as vulcanizing strips are on left hand and on right hand.
Incise the tape on the length 15 cm as shown in Fig. 9. Additionally, T-shaped perforation of the protecting paper shall be carried out without incision of the bituminous layer.

II.Second patch



9. Corner patch with edge incision

Press the second tape fragment carefully to the corner to be sealed and then remove the protective paper from each of 4 tape fragments and stick to the substrate (Fig. 10). Remember to remove the protective film from the vulcanizing strips before you stick the second fragment of the tape. At the same time, the tape shall be smoothed and pressed thoroughly to avoid folds or bends and to ensure good adherence.



10. Second patch arrangement on the external corner

After corners and another details are sealed with **AquaThene CORNER TAPE**, start arrangement of insulation made of **AquaThene** membranes. The membrane bands shall be stuck using overlap of 10 cm (minimum width of the overlap is 8 cm). The overlapped places shall be pressed especially carefully.

AquaThene CORNER TAPE obtains its full adherence to a substrate after 24 hours.
CAUTION! Do not remove the masking paper until the tape is immediately above the place of application.
During arrangement, protect the tape against sunlight, frost below - 5^{o}C, high temperature and moisture.

Package

Rolls of 300 mm x 15 m

Storage

Rolls of **AquaThene CORNER TAPE** shall be stored and transported in vertical position at temperature above +5°C. Protect against sunlight, frost, heat and moisture. Improper storage conditions can have negative influence on the tape adherence.

Use-by date

12 months in original packages providing they are stored according to the guidelines.

Industrial safety

During arrangement, wear suitable protective suit. Wash your hands with warm water immediately after the work is finished.

ESSENTIAL CHARACTERISTIC	AquaThene CORNER TAPE
colour	black-graphite
thickness	1,5 mm
vulcanizing strip width	2 x 50 mm
band width	300 mm
grammage	1,5 kg/m^2
diffusion resistance factor	Sd=235m
resistance to hydrostatic pressure	8 bar
ambient temperature during application	-5 °C do +30 °C
reaction to fire	class E
watertightness	pass
resistance to dynamic load (impact)	method A: ≤ 200 mm
flexibilty at low temperature	≤ -30°C
maximum tensile force (long. and trans.)	240±40N/50mm
elongation	long. 370±100% trans. 320±80%
resistance to static loading	proof,method B: ≤ 5 kg
resistance to tearing (nail)	140±40N
watertightness after artifical aging	pass
watertightness after exposure to chemicals	pass

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Aqua Tech
waterproofing solutions

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