SINTEF Technical Approval

TG 20448

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Provided listed on
www.sintefcertification.no

SINTEF confirms that

Tectis Sitko tapesystem

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document

1. Holder of the approval

Tectis AS
Isebakkeveien 55
1788 Halden

2. Product description

Tectis Sitko tapesystem consist of Sitko Flex, Sitko Duo, Sitko vindsperretape, Sitko Elastic tape, Sitko UV and Sitko The Incredible Flex tetningstape.

Sitko Flex is a flexible tape consisting of a green polyetylene membrane backing coated with polyacylic adhesive. The tape is available in 50 mm, 60 mm, 75 mm, 100 mm, and 150 mm width.

Sitko Duo is a double-sided tape consisting of PET backing coated with polyacrylic adhesive. The tape is available in 38 mm width.

Sitko vindsperretape is a diffusion open tape consisting of HDPE backing coated with acrylic adhesive. The tape is available in 60 mm and 100 mm width.

Sitko Elastic consists of polyolefin backing coated with butyl rubber adhesive. This tape is available in 50 mm and 88 mm width.

Sitko UV is a single-sided tape with self-adhesive UV acrylate. The backing consists of a white, UV stabilised PE foil. The tape is available in widths from 50 mm and upwards. The minimum roll length is 25 m.

Sitko The Incredible Flex tape consists of a green polyethylene membrane backing with a reinforced polyacrylate adhesive. The tape is available in 50 mm, 60 mm, 75 mm, 100 mm, 150 mm, and 200 mm width.

3. Fields of application

Sitko Flex is used to seal overlapping joints in the wind barrier and vapour barrier layer. An example of application area is shown in Figure 1.

Sitko Duo is used to seal overlapping joints in the vapour barrier. The tape can also be used to seal joints between PE foil and steel profiles. It is assumed that the sealing on PE foil is continuously clamped with batten or plates.

Fig. 1
Sitko Flex used for sealing vapour barrier and beam joints
Figure: Tectis AS

Sitko vindsperretape is used for repair and to seal overlapping joints in the wind barrier.

Sitko Elastic is used to seal ventilation ducts in the vapour barrier.

Sitko UV is used to seal overlapping joints in the vapour barrier and the wind barrier layer.

Sitko The Incredible Flex tape is used to seal overlapping joints of PE foil in the vapour barrier layer. The tape can also be used to seal joints between the PE foil and woodwork.

4. Properties

Adhesion

Sitko Flex has satisfactory adhesion to the surface of untreated wood, coated wood, Gypsum plasterboard with a cardboard surface, provided that the tape adheres well during installation, Diffo proof wind barrier and PE foil (vapour barrier).

Sitko Duo has satisfactory adhesion to the surface of PE foil (vapour barrier), galvanized steel, stainless steel, painted and anodized aluminium and PVC.

Sitko vindsperretape has satisfactory adhesion to Gypsum plasterboard with a cardboard surface, provided that the tape adheres well during installation and Diffo Proof wind barrier.

Sitko Elastic has satisfactory adhesion to the surface of PE foil (vapour barrier), galvanized steel, stainless steel, painted and anodized aluminium and PVC.

Sitko UV has satisfactory adhesion to the surface of galvanized steel, stainless steel, painted and anodized aluminium, untreated wood, coated wood, Anti'con Diffo HQ vindsperre, Diffo Proof Vindsperre, Gypsum plasterboard with a cardboard surface, provided that the tape adheres well during installation, Hunton Vindtett and PE foil (vapour barrier).

Sitko The Incredible Flex tetningstape has satisfactory adhesion to PE foil (vapour barrier), untreated wood and coated wood.

Durability
Sitko tapesystem is considered to have satisfactory durability based on accelerated aging test results. Accelerated aging for use in the wind barrier layer was carried out for a period of 14 days in a climate simulator in accordance with NT Build 495, followed by 24 weeks in a heat chamber at 70° C in accordance with EN 1296. Accelerated ageing for use in the vapour barrier layer was carried out for a period of 48 hours UV exposure without water in accordance with EN 1297, followed by 12 weeks in a heat chamber at 70° C in accordance with EN 1296.

5. Environmental aspects

Substances hazardous to health and environment
The products contain no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

Effect on indoor environment
The product is evaluated according to SINTEF Technical Approval – Health and Environmental Requirements version 10.05.2022. The product is not regarded as emitting any particles, gases or radiation that have a perceptible impact on the indoor climate, or to have any significant impact on health. The product meets requirements in BREEAM-NOR v6.0, Emissions from building products according to Hea 02 Indoor air quality.

Waste treatment/recycling
The products shall be sorted as residual waste on the building/demolition site. The products shall be delivered to an authorized waste treatment plant for energy recovery.

Environmental declaration
No environmental declaration (EPD) has been worked out for the products.

6. Special conditions for use and installation

Tectis Sitko tapesystem should be used on substrates where the adhesion properties are documented with satisfactory results.

All surfaces of the substrates must be dry, clean, and free of dust, oil, and grease prior to application of Tectis Sitko Tapes.

There must be no tension in the adhesive surface after assembly. The tapes cannot be used to hold together subjects where the adhesive surface is exposed to continuous strain.

When using Sitko Duo on PE foil it is assumed that the sealing is continuously clamped with batten or plates.

7. Factory production control

Tectis Sitko tapesystem are produced in Germany for Tectis AS.

The holder of the approval is responsible for the factory production control in order to ensure that Tectis Sitko tapesystem are produced in accordance with the preconditions applying to this approval.

The manufacturing of Tectis Sitko tapesystem is subject to continuous surveillance of the factory production control in accordance with the contract regarding SINTEF Technical Approval.

8. Basis for the approval

The evaluation of Tectis Sitko tapesystem is based on reports owned by the holder of the approval.

9. Marking

Tectis Sitko tapesystem are marked on the packaging with the name of the product and company name (Tectis AS). Every box is marked with batch number.

The approval mark for SINTEF Technical Approval No. 20448 may also be used.

10. Liability

The holder/manufacturer has sole product responsibility according to existing law. Claims resulting from the use of the product cannot be brought against SINTEF beyond the provisions of Norwegian Standard NS 8402.

for SINTEF

Hans Boye Skogstad
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