# KOMO® ATTESTATION-WITH-PRODUCTCERTIFICATE SKG.0176.6720.06.ENG

Issued: 26-06-2023
Valid until: 28-10-2025

Replaces: SKG.0176.6720.05.ENG
Issued: 28-10-2020

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CERTIFICATE

# Bostik BV
## PanelTack
## adhesive for the fastening of wall cladding

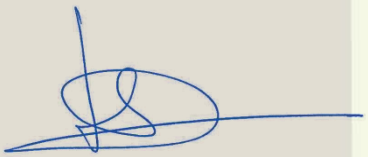
**Declaration SKG-IKOB**
This attestation with product certificate is issued on the basis of Assessment Guidelines BRL 4101-1: 15-10-2012, including the amendments page dated 31-12-2014 and BRL 4101-7: 01-11-2003 including the amendments page dated 07-09-2011, in accordance with the SKG Regulations for attestation, certification and inspection.

SKG-IKOB declares that:

- it can be assumed with justifiable confidence that the adhesive for the fastening of wall cladding produced by the manufacturer is in compliance at the time of delivery with the technical specifications recorded in this attestation with product certificate, provided that the adhesive for the fastening of wall cladding is provided with the KOMO® mark in a manner specified on this attestation with product certificate.
- the building component constructed using this adhesive for the fastening of wall cladding performs as described in this attestation with product certificate, provided:
  - the construction of the building component takes place in accordance with the instructions and/or processing methods specified in this attestation with product certificate;
  - the conditions for use described in this attestation with product certificate are satisfied.

SKG-IKOB declares that for this attestation with product certificate, no monitoring takes place of the production of other parts of the building component, nor of the fitting of the building component into the building work.

For SKG-IKOB



ir. H.A.J. van Dartel
Certification manager

The certificate has also been added to the list on the website of the KOMO organisation: www.komo.nl. Users of this certificate are advised to check on www.skgikob.nl whether this document is still valid.
This attestation with product certificate consists of 4 pages.

This document is a translation of the Dutch text. The original Dutch text is binding

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**Assessed:**
**- quality system**
**-product**
**-performance product during application**
**Periodical check**

## 1 TECHNICAL SPECIFICATIONS

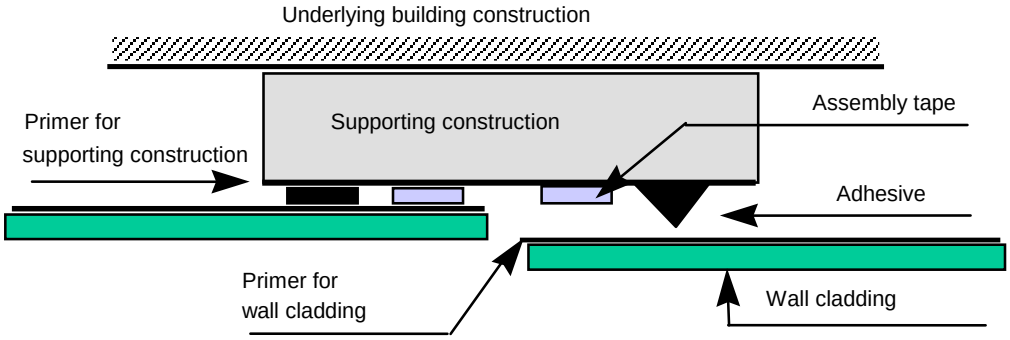
### 1.1 Subject
Adhesive for the fastening of wall cladding on the basis of SMP (Silyl Modified Polymers) of type MS Polymer and (auxiliary) materials such as tape for the initial fastening.

### 1.2 Identification
The packaging is marked with the KOMO® mark. The form of this mark is as followed:
- The mark name KOMO® or KOMO logo;
- The certificate number: SKG.0176.6720:
  With compulsory indication:
- The last processing date.

Position of the mark: clearly visible on each unit supplied.

### 1.3 Principle of the adhesive bonding in the building element

**Figure 1**
PanelTack adhesive bonding: Horizontal cross section over the vertical supporting construction




To guarantee satisfactory ventilation and removal of any moisture behind the cladding, a horizontal adhesive bonding is not generally used. If this is implemented (in connection with flatness requirements for the panels, for example), then this must be done in such a way that satisfactory ventilation and removal of any moisture is guaranteed. This horizontal adhesive bond is not considered to contribute to the strength of the overall bonding of the cladding to the supporting construction. The adhesive performs as specified in table 4 of this attestation with product certificate for a minimum width (when fitted) of 12 mm and a thickness of 3 mm. The adhesive rib is applied in a single work cycle to the supporting construction over the entire height of the wall cladding to be fitted.

The assembly tape serves a dual purpose, namely:
- to ensure that the thickness of the adhesive mass is uniform and sufficient to absorb movements of the wall cladding due to expansion and contraction;
- to ensure a temporary bond during the application stage.

### 1.4 Product specification
The technical specifications of the adhesive and assembly tape are summarised in the tables below.

**Table 1**

| **Description of adhesive** | **PanelTack** |
|---|---|
| **Colour** | light grey |
| **Shelf life** | 12 months |
| **Tensile strength** | 1.37 N/mm$^2$ |
| **Shearing strength** | 1.58 N/mm$^2$ |
| **Maximum displacement of the wall panel** | 4.3 mm |

Explanation: The maximum displacement of the panel is equal to 40% of the maximum elastic stretch of the adhesive for an adhesive rib thickness of 3 mm.

Taking into account the maximum allowable displacement of the wall panel, it follows that the diagonal of the wall panel must satisfy the following:

$$d_{max} \leq 2\frac{x_{max}}{f_{max}}$$

With:

| | | |
|---|---|---|
| $d_{max}$ | maximum diagonal of the wall panel | m |
| $x_{max}$ | maximum displacement of the wall panel (see table 1) | mm |
| $f_{max}$ | maximum deformation of the wall panel in the chosen climate range (see wall panel product information) | mm/m$^1$ |

**Table 2**

| Description of assembly tape | Foam tape | Foam tape HD |
|---|---|---|
| **Shelf life** | 12 months | 12 months |
| **Tensile strength** | 0.27 N/mm$^2$ | 0.23 N/mm$^2$ |
| **Shearing strength** | 0.27 N/mm$^2$ | 0.26 N/mm$^2$ |
| **Thickness** | 3 mm | 3 mm |
| **Compressibility** | 0.025 N/mm$^2$ | 0.027 N/mm$^2$ |

Explanation: The values given for the assembly tape are relevant during the first 24 hours after the application of the adhesive.

**1.5 Supporting construction**

The supporting construction and the fastening of this to the underlying building construction is sufficiently strong and rigid to support the loads in accordance with NEN-EN 1991-1 after assembly of the wall cladding if this is borne out by calculations. The supporting construction must be level and warp free (after any necessary adjustments) when the wall cladding is fastened to the supporting construction, with a maximum deviation of + or – 1.5 mm, both with respect to the theoretical dimensions and to each panel to be bonded. Timber supporting constructions must be sufficiently protected against deterioration, in accordance with the provisions of NPR 3670.

**2. PROCESSING INSTRUCTIONS**

**2.1 General**

The processing instructions contain instructions about:
- the preliminary treatment of both the underlying supporting construction and the wall cladding;
- the climatic conditions in which the application of the adhesive is responsible;
- the recommended drying times;
- the dimensions and centre-to-centre distances to be followed for the underlying supporting construction;
- removal of superfluous adhesive residues;
- the specially shaped nozzle to be used;
- the application of the adhesive rib in one work cycle;
- the assessment and acceptance of the substrate, including checking for compliance with the requirements of:
  - fastening:
  - levelness / squareness;
  - c.t.c. distances and dimensions;
  - the design of the working details (particularly under the cladding) in such a way as to prevent rats and/or mice from nesting there;
  - the avoidance of direct UV overexposure;
  - how the adhesive and the assembly tape must be stored;
  - the shelf life of both adhesive and assembly tape.

**A number of characteristics are described below, which form part of the processing instructions and are important for achieving a correct adhesive bond.**

**2.2 Supporting construction**

The (timber or other) supporting construction must be dry and free of dust and grease, while in the case of a timber supporting construction, the moisture content of the wood must not exceed 18%.

**2.4 Primer**

A timber (pine) supporting construction must be treated with primer type Primer SX Black.
Shake the primer thoroughly in the tin before use, and apply the primer with a roller. The primer must be applied sufficiently thickly to ensure a continuous layer or film. The primer must be allowed to dry for at least 60 minutes, but no longer than 6 hours.
The wall cladding must be cleaned and Primer PanelTack applied, by rubbing the panels firmly clean over their full length and a width of 10 to 15 cm, and then applying the primer. The primer must be allowed to dry for at least 10 minutes, but no longer than 6 hours. Where appropriate, Easy Clean Wipes can also be used; see table 3 for more details.

**2.5 Application of foam tape (assembly tape)**

The foam tape should be applied without any breaks. Press the tape firmly against the surface and cut off with a sharp knife. The protective layer of the tape should only be removed once the adhesive has been applied.

**2.6 Application of adhesive**

The adhesive can be applied once the foam tape is in place. The adhesive should only be applied vertically and without any breaks, using the special V-shaped nozzle supplied. The adhesive rib applied in this way must be 9 mm high and 9 mm wide.

**2.7 Fastening of wall cladding**

It is essential to fasten the wall cladding within 10 minutes of application of the adhesive to prevent skin formation on the adhesive.

**2.9 Climatic conditions**

Preliminary treatment (priming) and bonding must take place under dry conditions; therefore no rain or precipitation should be present. The forming of condensation on the construction and cladding must be avoided. The temperature of the bonding surface of the panels and support construction must be 3ºC above the dew point.
The air temperature should not be lower than +5 °C or higher than +30 °C. The relative air humidity should not exceed a value of 90%.

## 3. PERFORMANCE

### 3.1. Strength of the adhesive

When calculating the quantity of adhesive to be used per $m^2$ of wall cladding surface, the values given in table 3 should be used. These incorporate the following safety factors:
- for tensile strength, a factor of 4**;**
- for shearing strength, a factor of 10.

**Table 3**
Adhesive type: PanelTack

| Supporting construction | Preliminary treatment of supporting construction | Wall cladding | Preliminary treatment of wall cladding | Calculation value | |
|---|---|---|---|---|---|
| | | | | Tensile strength N/mm² | Shearing strength N/mm² |
| Wood, pine, planed and untreated | Primer SX Black | Trespa Meteon<br>Trespa Meteon FR<br>Plastica Massief NT<br>Fundermax Max Exterior NT | Easy Clean wipes or Primer PanelTack | 0.34 | 0.16 |
| | | Abet Exterieur MEG | Primer PanelTack | | |

Since no suitable determination method is available, it has not been shown that these performance characteristics are valid for a period of 50 years (durability requirement on the basis of the Buildings Decree).

The tensile and shearing strength values applicable to the assembly tape are specified in Table 2. The assembly tape values are relevant during the first 24 hours after application of the adhesive.

## 4 ADVICE FOR THE USER

### 4.1 On delivery of the adhesive for the fastening of wall cladding, check that:
- the agreed products have been delivered;
- the marks and method of marking are correct;
- the products show no visible flaws caused by transport and suchlike;

If the products are rejected on the grounds of the above, contact should be made with:
Bostik BV;
and if necessary with:
SKG-IKOB.

### 4.2 Attestation with product certificate
The producer is obliged to ensure that the purchaser has a copy available at the workplace of the full attestation with product certificate.

### 4.3 Purpose and use
The adhesive is intended for the fastening of wall cladding for the construction industry (housing and industrial premises).

### 4.4 Validity check
Check whether this attestation with product certificate is still valid. For this purpose, consult the SKG-IKOB website: www.skgikob.nl.