PRODUCT DATA SHEET

ITEM CODE: SEE DN
ISSUE DATE: 04/06/2026
REVIEW: NO.2

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WIGUM PLUS® H_2O B_{ROOF} T2

MEETS THE EUROPEAN LAW
EAD
030350-00-0402
Liquid-Applied Waterproofing Systems for Roofs

DESCRIPTION OF THE PRODUCT

Water-based, coloured liquid elastomeric waterproofing membrane with excellent durability and performance characteristics. **WINGUM PLUS® H_2O B_{ROOF} T2** is suitable for large surfaces. Due to its reaction to external fire, it can be used to waterproof and protect substrates requiring a **B_{ROOF} T2** fire reaction classification. Developed by WINKLER Research & Development Laboratories.

APPLICABLE REGULATIONS

WINGUM PLUS® H_2O B_{ROOF} T2:

- Certified and complies with **EAD 030350-00-0402** guidelines (formerly **ETAG 005**) for liquid-applied roof waterproofing systems
- Achieves the external fire performance class **Broof T2** in accordance with **UNI EN 13501-5**.

FIELDS OF USE

The product is suitable for the protection and waterproofing of terraces and flat roofs. It can be applied on substrates with a density of ≥15kg/m^3, including EPS thermal insulation panels, wood, fiber cement, cement-based substrates, concrete, metal surfaces (including oxidizable ones), and damaged bituminous polymer membranes.
Its special formulation ensures high flexibility, which remains stable even at very low temperatures, and provides long-term durability.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose and brittle material, and any foreign or non-adherent substances.
On irregular substrates, a preliminary application of **WINFIX CONCRETE** is recommended to ensure proper adhesion.
For surface levelling, use **WINLIVEL**, a self-levelling compound for irregularities from 1 to 15 mm, or **WINLIVEL RAPID**, a quick-drying self-levelling for irregularities from 1 to 20 mm.
For the construction of new screeds, use **WINPLAN 370**, a quick-drying screed, or **WINPLAN PRO**, a fast-drying screed with and low water absorption.

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Check the substrate for the presence of residual moisture to prevent the formation of air bubbles caused by vapour pressure. The most effective method to detect hidden moisture is to apply a polyethylene sheet over the substrate and seal the edges with adhesive tape. Expose the area to sunlight and inspect after 24 hours.
If no condensation is present, apply **WINGUM PLUS® H_2O B_{ROOF} T2**. If condensation is detected, allow the substrate to dry completely before proceeding.

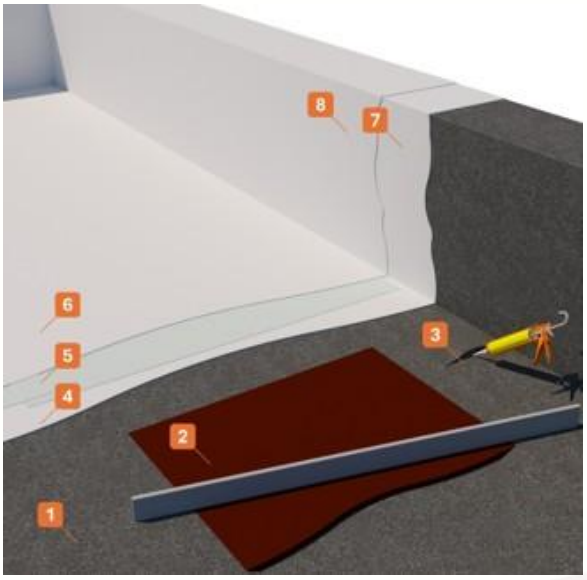
RECOMENDATIONS
Do not add additives.
Do not use the product if the packaging is damaged.
Do not add water or solvents.

WARNINGS
When applied over a bituminous membrane, the membrane must have undergone at least 180 days of oxidation prior to application.
Apply **WINGUM PLUS® H_2O B_{ROOF} T2** at temperatures between +5°C and +35°C.
Protect the applied product from water, rain, and snow during the first 4 hours after application.
Before applying the second coat, ensure that the surface is completely dry. Do not apply if overnight dew or moisture is forecast.

APPLICATION
The product is ready to use and does not need to be diluted. Mix briefly before application. Ensure substrates are clean and dry before application. Apply by roller, brush, or airless spray equipment.

Apply approximately one third of the total requires **WINGUM PLUS® H_2O B_{ROOF} T2** quantity in a uniform layer over the substrate to be treated. Immediately lay the **WINTECHNO MAT** onto the fresh coating and ensure full adhesion of the reinforcement by applying light pressure with a roller. Allow the product to dry completely for 18-24 hours. Once dry, apply the second coat of **WINGUM PLUS® H_2O B_{ROOF} T2** until the total consumption indicated in the current Technical Data Sheet is achieved.

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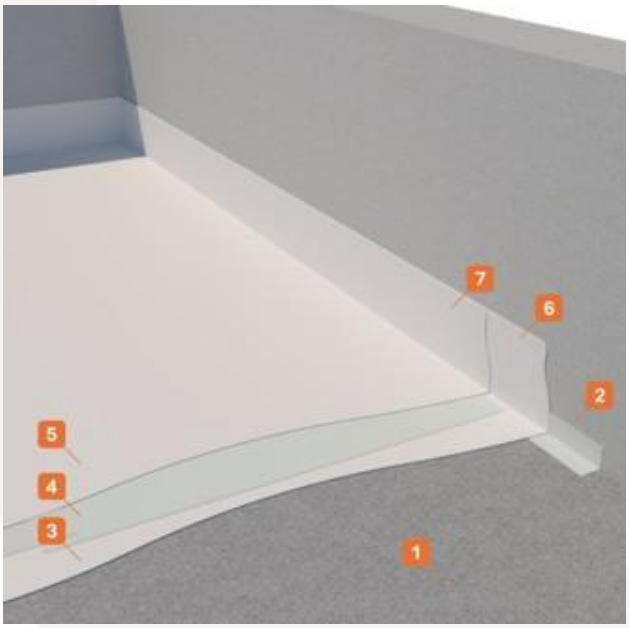


LEGEND

1. Existing bituminous membrane;
2. Levelling compound **WIN BITUROOF**;
3. Restoration of overlaps with **TIXO SEAL**;
4. **WINGUM PLUS® H_2O B_{ROOF} T2**, first coat;
5. **WINTECHNO MAT**, 70 g/m² non-woven fabric reinforcement;
6. **WINGUM PLUS® H_2O B_{ROOF} T2**, second coat;
7. **WINGUM PLUS® H_2O B_{ROOF} T2**, first coat on vertical upstand;
8. **WINGUM PLUS® H_2O B_{ROOF} T2**, second coat on vertical upstand.

To ensure proper waterproofing performance, apply **BC SEAL BAND** waterproofing adhesive tape along all perimeter edges of the surface.
For waterproofing and sealing around roof penetrations - such as drains, ventilation pipes, service penetrations, and pipes - use **BC SEAL PAD**, self-adhesive butyl square pad designed for localized reinforcement.

Perimeter angle treated with BC SEAL BAND



LEGEND

1. Structural substrate / sloping screed;
2. **BC SEAL BAND**, self-adhesive butyl sealing tape;
3. First coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
4. **WINTECHNO MAT**;
5. Second coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
6. **WINGUM PLUS® H_2O B_{ROOF} T2**, first coat on vertical upstand;
7. **WINGUM PLUS® H_2O B_{ROOF} T2**, second coat on vertical upstand.

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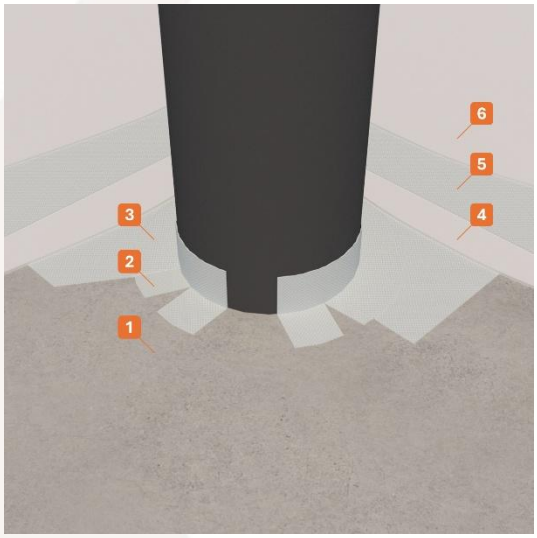
Roof vent treated with BC SEAL BAND and BC SEAL PAD



LEGEND

1. Structural substrate / sloping screed;
2. **BC SEAL BAND**, self-adhesive butyl sealing tape applied as a “collar”;
3. **BC SEAL PAD**, self-adhesive butyl patch;
4. First coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
5. **WINTECHNO MAT**;
6. Second coat of **WINGUM PLUS® H_2O B_{ROOF} T2**.

Detail of vent pipe treated with BC SEAL BAND and BC SEAL PAD.



LEGEND

1. Structural substrate / sloping screed;
2. **BC SEAL BAND**, self-adhesive butyl sealing tape applied as a “collar”;
3. **BC SEAL PAD**, self-adhesive butyl patch;
4. First coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
5. **WINTECHNO MAT**;
6. Second coat of **WINGUM PLUS® H_2O B_{ROOF} T2**.

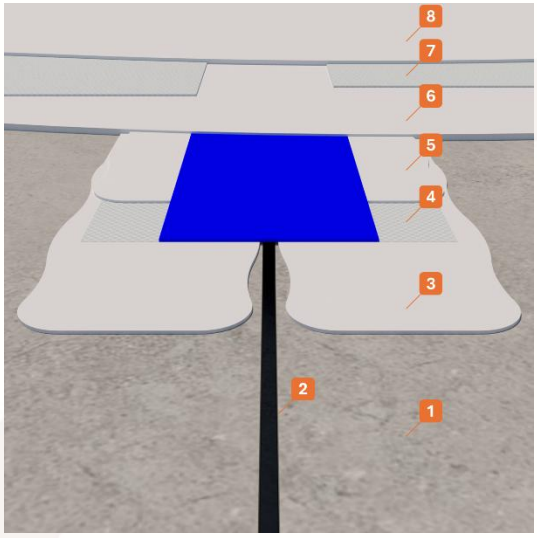
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SURFACES WITH JOINTS

Sealing of joints up to 1 cm wide

Seal joints up to 1 cm in width using **WINJOINT BAND**, a waterproofing elastic joint cover strip made of rubber and polyester fabric, specifically designed for joint waterproofing.
After forming new joints or restoring existing ones, apply **WINGUM PLUS® H_2O B_{ROOF} T2** laterally along both sides of the joint, ensuring a coverage wider than the width of the joint cover strip.
While the product is still wet, place **WINJOINT BAND** over the joint and press the perforated side firmly into the area previously treated with **WINGUM PLUS® H_2O B_{ROOF} T2** to ensure proper adhesion.



LEGEND

1. Structural substrate / sloping screed;
2. Screed movement joint;
3. **WINGUM PLUS® H_2O B_{ROOF} T2**;
4. **WINJOINT BAND**;
5. **WINGUM PLUS® H_2O B_{ROOF} T2**;
6. First coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
7. **WINTECHNO MAT**;
8. Second coat of **WINGUM PLUS® H_2O B_{ROOF} T2**.

Sealing of joints wider than 1 cm

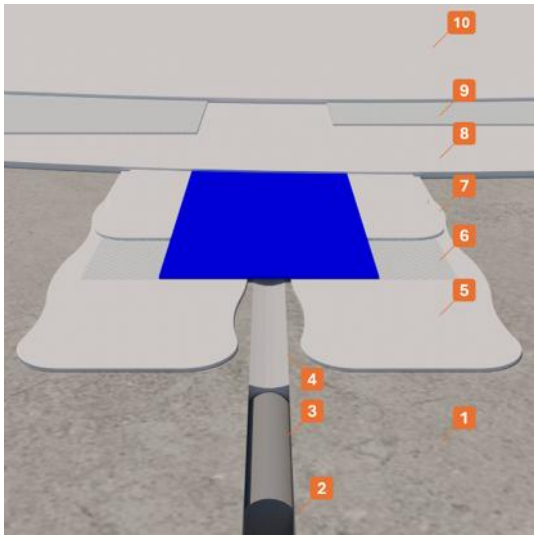
Use the following system to seal joints wider than 1cm: **WINJOINT FOAM** (compressible polyethylene backer rod), **WINJOINT SEAL** (polyurethane sealant) and **WINJOINT BAND**, as described below:
After forming new joints or restoring existing ones, insert **WINJOINT FOAM** into the joint to the required depth.
Apply **WINJOINT SEAL** along the entire length of the joint, ensuring complete filling.
Once the sealant has fully cured, apply **WINJOINT BAND** following the procedure previously described.

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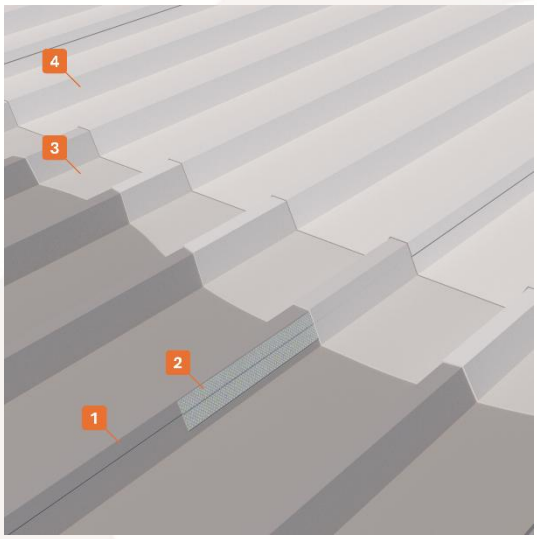
Detail of sealing joints wider than 1 cm.



LEGEND

1. Structural substrate / slope screed;
2. Screed joint;
3. **WINJOINT FOAM**, Backed rod;
4. **WINJOINT SEAL**, sealant;
5. **WINGUM PLUS® H_2O REFLEX B_{ROOF} T2;**
6. **WINJOINT BAND;**
7. **WINGUM PLUS® H_2O REFLEX B_{ROOF} T2;**
8. First coat of **WINGUM PLUS® H_2O REFLEX B_{ROOF} T2;**
9. **WINTECHNO MAT**;
10. Second coat of **WINGUM PLUS® H_2O REFLEX B_{ROOF} T2.**

Applications on metal roofs



LEGEND

1. Metal panel;
2. **BC SEAL BAND**, self-adhesive butyl sealing tape;
3. First coat of **WINGUM PLUS® H_2O B_{ROOF} T2**;
4. Second coat of **WINGUM PLUS® H_2O B_{ROOF} T2**.

DRYING TIMES (at +20°C)

The product is dry to the touch approximately 12 hours after application. After 24 hours from the application of the final coat, it becomes waterproof and resistant to standing water. After 48 hours from the application of the final coat, the product achieves sufficient mechanical resistance for foot traffic.

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CONSUMPTION

2.0 –2.2 kg/m² in two coats with **WINTECHNO MAT** reinforcement embedded
1.4 kg/m² in two coats without reinforcement mesh, on substrates with a density ≥ 510 kg/m³.

PACKAGING

5-10-20 kg buckets

STORAGE

The product stored in its original, undamaged packaging in a dry, protected place has a shelf life of 24 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

SAFETY INSTRUCTIONS

PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

TECHNICAL FEATURES
(average value)

FEATURES	STANDARD	RESULTS
Appearance	-	Fibred fluid paste
Colour	-	White - Grey – Red – Green
Specific weight at 20°C	UNI EN ISO 2811-1	1.45 ± 0.05 g/cm³
Solid content	UNI EN ISO 3251	75 ±3 %
Brookfield viscosity at 20°C	UNI EN 8490	18.000 ± 2.000 cPs

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PRODUCT PERFORMANCES IN SERVICE

FEATURES	STANDARD	RESULTS
Operational temperature	-	-20°C to +80°C
Reaction to fire	UNI EN 13501-5	Broof T2
Impermeability	UNI EN 1928	≥ 1.0 bar
Tensile strength at break	UNI EN ISO 527-1	≥ 1.5 N/mm^2
Elongation at break	UNI EN ISO 527-1	≥ 150 %
Accelerated ageing	UNI EN 1062-11	No cracking or delamination
Tensile strength at break after accelerated ageing	UNI EN ISO 527-1	≥ 2.0 N/mm^2
Elongation at break after accelerated ageing	UNI EN ISO 527-1	≥ 100 %
Adhesion strength to concrete	UNI EN 1542	≥ 1.0 N/mm^2
Water absorption	ASTM D 471	≤ 14% by weight

PRODUCT FOR PROFESSIONAL USE ONLY

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