# PRODUCT DATA SHEET

## WINGUM PRO TECK ANTIRADICE

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**DESCRIPTION OF THE PRODUCT**

**WINGUM PRO TECK ANTIRADICE** is a water based, fibre-reinforced, elastomeric, bitumen-based, liquid waterproofing membrane developed by WINKLER Research & Development Laboratories. It is root-resistant and resistant to ponding water. Formulated with new-generation raw materials, it prevents root penetration in compliance with the requirements of **UNI EN 13938.**

**FIELDS OF USE**

The product is used for the protection and waterproofing of structures, including flat surfaces, made of concrete, fibre-cement, wood, and brickwork, intended to contain plants, seeds, and roots. Typical applications include planters, green roof and raised garden beds. It can also be applied over existing bituminous membranes, both smooth and mineral-finished.

**SURFACE PREPARATION**

Thoroughly clean the substrate, removing dust, loose or friable material, and any foreign or non-adherent substances.
Apply the product only on dry substrates. Ensure that the substrate is not damp, in order to prevent the formation of air bubbles caused by vapour pressure. A practical method to check for hidden moisture in the substrate is to cover approximately one square meter of the surface – preferably in a sun-exposed area- with a polyethylene sheet of approximately 0.2 mm thickness, sealing the edges completely with double-sided adhesive tape.
After 24-48 hours, check for the presence of condensation beneath the sheet.

On dusty or powdery concrete substrates, to ensure proper adhesion, it is recommended to apply a preliminary coat of **WINFIX CONCRETE**. Alternatively, **WINGUM PRO TECK ANTIRADICE** may be used as a primer, diluted with 20% clean water (1.0L for a 5 kg bucket, 2.0 L for a 10 kg bucket, and 4.0 L for a 20 kg bucket). Allow the primer coat to dry completely (approximately 30 minutes at +20°C), then proceed with the application of the product.


**Winkler Srl**
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

**BITUMINOUS MEMBRANES**

For applications on polymer-bitumen membranes, wait at least 180 days after installation to allow for oxidation before applying **WINGUM PRO TECK ANTIRADICE**. Ensure that the surface is in good condition, paying particular attention to the presence of "crocodile skin" cracking, reptations, non-adherent overlaps, moisture bubbles, or any other detachments, and proceed as described below:

**Crocodile skin cracking:** If the surface exhibits this type of cracking, assess its depth. For cracks less then 1 mm deep, clean the surface thoroughly (e.g.., by vacuuming) and then apply the product.

**Non-adherent overlaps:** check for water trapped beneath raised membrane areas. Allow the water to evaporate completely, then seal the overlaps using **WINSEAL**, a cold-applied bituminous rubber sealant. Immediately after sealing, apply **WINGUM PRO TECK ANTIRADICE**.

**Moisture bubbles:** make an X-shaped cut in each bubble and allow the underlying water to evaporate completely. Re-seal the membrane with **WINSEAL**, then immediately apply **WINGUM PRO TECK ANTIRADICE**.

For other situation or unusual substrate conditions, contact the WINKLER Technical Department for guidance.

**METAL SURFACES**

On metal surfaces, it is recommended to carefully remove any residual rust from the surface, clean thoroughly, and then apply **WINGUM PRO TECK ANTIRADICE** directly.

All joints between metal sheets must be treated in advance with **BC SEAL BAND**, a self-adhesive butyl tape coated with non-woven polypropylene. This ensures that any movements do not cause cracks, maintaining the continuity of the waterproofing layer.

For this specific application, it is essential to apply the strip using the "Omega" method. This involves adhering the two ends of the tape to the two metal sheets to be connected, while leaving the central portion of the tape free to accommodate substrate movement and thermal expansion.



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**RECOMMENDATIONS**

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

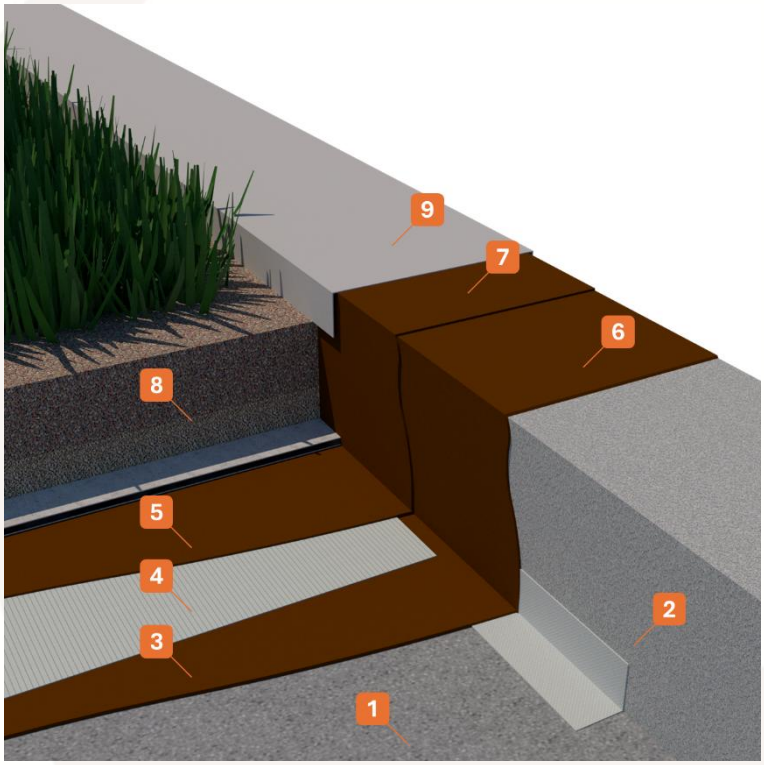
**WARNINGS**

**WINGUM PRO TECK ANTIRADICE** can only perform its waterproofing function after it has achieved complete drying at least once. Therefore, do not apply under adverse environmental conditions, such as when rain is imminent, on frozen surfaces, or on substrates exposed to severe nighttime temperatures. Protect the product from water, rain, and snow during the first 24 hours after application. Do not apply in conditions of night-time humidity.

**APPLICATION**

The product is ready to use. Apply W**INGUM PRO TECK ANTIRADICE** using a roller, brush, spatula, or trowel.
As performance depends on substrate porosity and possible surface irregularities, in order to obtain a homogeneous and continuous layer it is recommended to apply two or more coats, embedding the reinforcement **WINTECHNO MAT** between the first and second coats.
Apply the second coat only after the first coat is completely dry (approximately 12-24 hours, depending on ambient temperature).

**Flower box application**



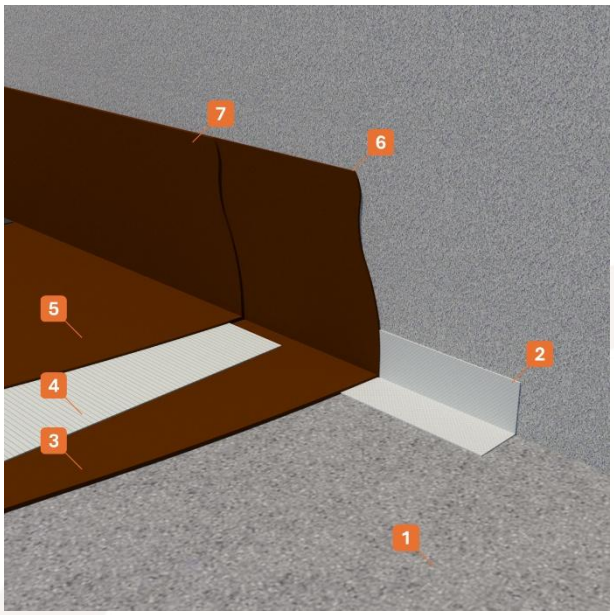

**LEGEND**

1. Substrate;
2. **BC SEAL BAND,** self-adhesive butyl tape;
3. First coat of **WINGUM PRO TECK ANTIRADICE;**
4. **WINTECHNO MAT;**
5. Second coat of **WINGUM PRO TECK ANTIRADICE;**
6. First vertical coat of **WINGUM PRO TECK ANTIRADICE**;
7. Second vertical coat of **WINGUM PRO TECK ANTIRADICE**;
8. Drainage mat and soil;
9. Cap flashing.


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On perimeter edges of the surface, the application of **BC SEAL BAND**, a butyl tape coated with non-woven polypropylene, is recommended. For waterproofing external details, including pipes, roof penetrations, other protrusions, and drains in general, use **BC SEAL PAD**, a square self-adhesive butyl pad.

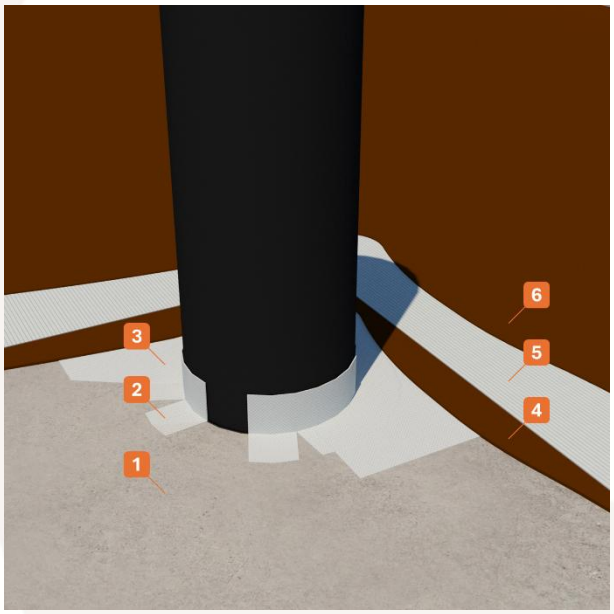
**Perimeter edge treated with BC SEAL BAND**




**LEGEND:**

1. Structural substrate / screed;
2. **BC SEAL BAND** Self-adhesive butyl sealing tape;
3. First coat **WINGUM PRO TECK ANTIRADICE;**
4. **WINTECHNO MAT** reinforcement mat;
5. Second coat **WINGUM PRO TECK ANTIRADICE;**
6. First vertical coat of **WINGUM PRO TECK ANTIRADICE**;
7. Second vertical coat of **WINGUM PRO TECK ANTIRADICE**;

**Roof vent treated with BC SEAL BAND and BC SEAL PAD**



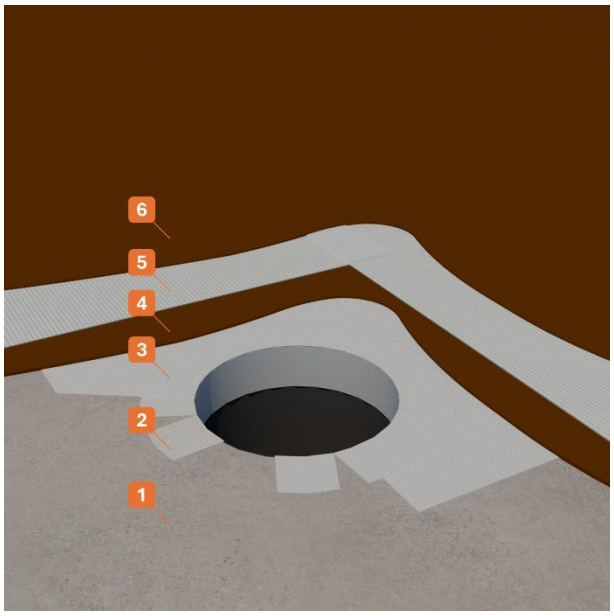

**LEGEND:**

1. Structural substrate / screed;
2. **BC SEAL BAND** Self-adhesive butyl sealing tape;
3. **BC SEAL PAD** Self-adhesive butyl sealing pad;
4. First coat of **WINGUM PRO TECK ANTIRADICE**;
5. **WINTECHNO MAT** reinforcement mat;
6. Second coat of **WINGUM PRO TECK ANTIRADICE**.



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**Drain details**

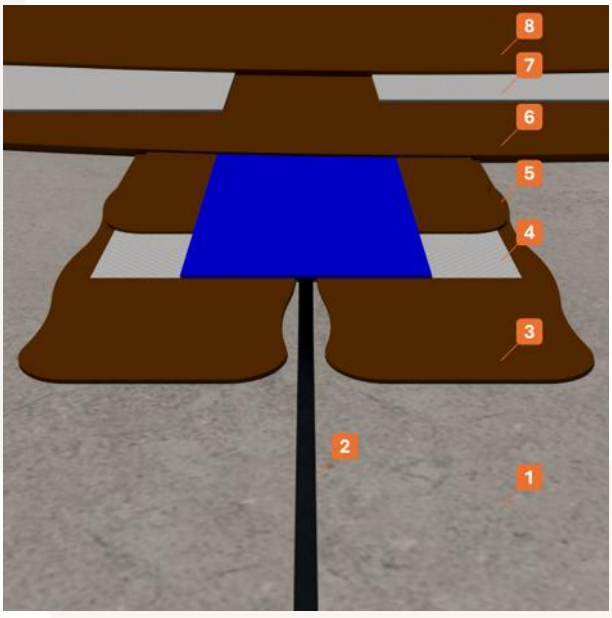



**LEGENDA**
1. Structural substrate;
2. **BC SEAL BAND** Self-adhesive butyl sealing tape;
3. **BC SEAL PAD** Self-adhesive butyl sealing pad**;**
4. First coat of **WINGUM PRO TECK ANTIRADICE;**
5. **WINTECHNO MAT** reinforcement mat;
6. Second coat **WINGUM PRO TECK ANTIRADICE.**

**SURFACES WITH JOINTS**

**Sealing of joints up to 1 cm wide**

Seal joints up to 10 mm wide using **WINJOINT BAND** (a waterproof elastic band made of rubber and polyester fabric, suitable for joint waterproofing), as follows:
After creating new joints or restoring existing ones, apply **WINGUM PRO TECK ANTIRADICE** laterally to the joint, covering a width slightly larger than the joint itself.
Lay the **WINJOINT BAND** in the direction of unrolling, ensuring the fabric side remains visible. Position the perforated side strip on the area already treated with wet **WINGUM PRO TECK ANTIRADICE**.
Once the product has dried, saturate the joint cover with the final coat of **WINGUM PRO TECK ANTIRADICE** to complete the sealing.

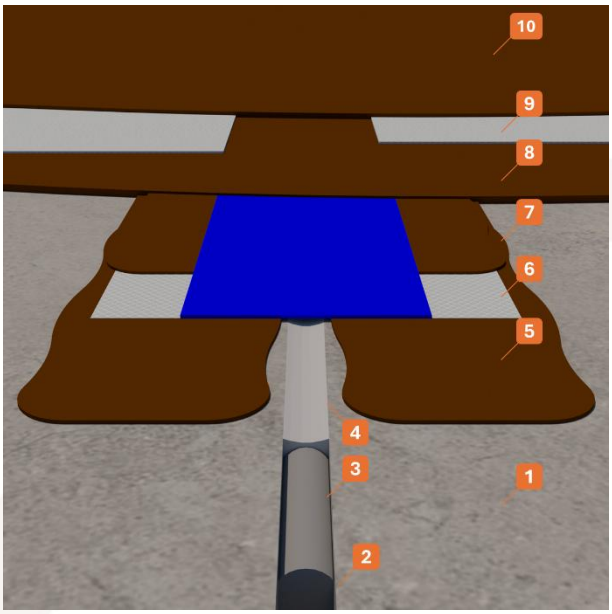



**LEGEND**
1. Structural substrate;
2. Joint;
3. **WINGUM PRO TECK ANTIRADICE**;
4. **WINJOINT BAND** Self-adhesive butyl sealing tape;
5. **WINGUM PRO TECK ANTIRADICE**;
6. First coat of **WINGUM PRO TECK ANTIRADICE**;
7. **WINTECHNO MAT** Reinforcement layer;
8. Second coat of **WINGUM PRO TECK ANTIRADICE**;


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**Sealing of joints wider than 1 cm**

Seal joints wider than 1 cm using a system composed of **WINJOINT FOAM** (compressible polyethylene backer rod), **WINJOINT SEAL** (polyurethane sealant), and **WINJOINT BAND**, as follows:
After creating new joints or restoring existing ones, insert **WINJOINT FOAM** into the joint to the desired depth.
Extrude **WINJOINT SEAL** along the entire length of the joint, ensuring complete coverage.
Once the sealant has cured, lay **WINJOINT BAND** as previously described for joint reinforcement.




**LEGEND**
9. Structural substrate;
10. Joint;
11. **WINJOINT FOAM,** joint backing rod;
12. **WINJOINT SEAL,** sealant;
13. **WINGUM PRO TECK ANTIRADICE**;
14. **WINJOINT BAND** Self-adhesive butyl sealing tape;
15. **WINGUM PRO TECK ANTIRADICE**;
16. First coat of **WINGUM PRO TECK ANTIRADICE**;
17. **WINTECHNO MAT** Reinforcement layer;
18. Second coat of **WINGUM PRO TECK ANTIRADICE**;

**CONSUMPTION**
2.0-2.5 kg/m$^2$ applied in two or more coats with **WINTECHNO MAT** embedded between coats

**PACKAGING**
5 -20 kg buckets

**STORAGE**
The product in its original and undamaged packaging, can be stored for up to 24 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

winkler® Advanced Building Material
Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
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## 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)

*Values determined at 22°C and 50% RH

| FEATURES | RESULTS |
|---|---|
| Appearance | Fluid with high thixotropy |
| Colour | Brown (fresh)<br>Black (once dry) |
| Density at 20°C | 1.05 g/cm$^3$ |
| Solid content | 48±1.0 % |
| Curing at +20°C | Fully cured after 48 hours |
| Operating temperature range | From +5°C to +35°C |



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## PRODUCT PERFORMANCE IN SERVICE

*Values determined at 22°C and 50% RH

| FEATURES | STANDARD | RESULTS |
|---|---|---|
| Elongation without reinforcement | ASTM D 2371 | 350 % |
| Tensile strength without reinforcement | ASTM D 2370 | 0.8 N/mm² |
| Water absorption | ASTM D 471 | <20 % |
| Water resistance | - | Very good (after full drying) |
| Adhesion to substrate (concrete) | UNI EN 14891 | ≥1.0 N/mm² |
| Crack-bridging at +23°C | UNI EN 14891 | ≥1.5 mm |
| Crack-bridging at -5°C | UNI EN 14891 | ≥1.0 mm |
| Elongation with reinforcement | ASTM D 2371 | 30 % |
| Tensile strength with reinforcement | ASTM D 2370 | 7.0 N/mm² |
| Cold flexibility / pliability | ASTM D 522 | -15°C |
| Root penetration resistance | UNI EN 13948 | No penetration detected |

## VOLATILE ORGANIC COMPOUNDS EMISSION

| PARAMETER | MAX. ALLOWED CONCENTRATION (µg/m³) |
|---|---|
| TVOC after 3 days | ≤ 750 |
| TVOC after 28 days | ≤ 60 |

Test performed by the EUROFINS Institute according to EN 16516, ISO 16000-3/6/9/11 and ASTM D5116-10. Test report n. 392-2017-00404102_G_EN_02.

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