PRODUCT DATA SHEET

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WINGUM PRO TECK RAPID ANTIRADICE

DESCRIPTION OF THE PRODUCT

WINGUM PRO TECK RAPID ANTIRADICE is an elastomeric, bitumen-based, thixotropic, fast-curing liquid waterproofing membrane, resistant to ponding water. Thanks to its new-generation formulation developed by WINKLER Research & Development Laboratories, it can be exposed to UV rays for up to two years without protection. Formulated with new-generation raw materials, it prevents root penetration in compliance with the requirements of **UNI EN 13938.**

FIELDS OF USE

Thanks to its fast-curing properties, the product becomes rain-resistant just a few hours after the first coat, allowing work to start and finish within the same day (see rain-proof times table).
The product is used for the protection and waterproofing of structures, including flat surfaces, made of concrete, fibre-cement, cementitious screeds, 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 RAPID 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.

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BITUMINOUS MEMBRANES

For applications on polymer-bitumen membranes, wait at least 180 days after installation to allow for oxidation before applying **WINGUM PRO TECK RAPID 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 RAPID 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 RAPID 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 RAPID 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 unless required by the specific application method.

WARNINGS

Apply **WINGUM PRO TECK RAPID ANTIRADICE** at temperatures between +5°C and +25°C. The substrate temperature must not exceed +30°C.
If **WINGUM PRO TECK RAPID ANTIRADICE** is to be applied over a bitumen-polymer membrane, ensure that the membrane has undergone at least 180 days of oxidation.

APPLICATION

The product is ready to use and must be mixed briefly before application. Apply on dry, clean substrate using a roller, brush, trowel, or airless spray equipment.

When faster rain resistance is required, apply the product in two coats, respecting the intervals indicated in Table 1.

Apply the first coat of **WINGUM PRO TECK RAPID ANTIRADICE** at a rate of approximately 1.0-1.2 kg/m^2, ensuring a uniform layer over the substrate to be treated. While the product is still fresh, lay **WINTECHNO MAT** and fully impregnate int by applying light pressure with a roller. Allow the product to dry completely (see Table 1).

Apply the second coat of **WINGUM PRO TECK RAPID ANTIRADICE** until reaching the total consumption indicated in this Technical Data Sheet, approximately 1.0-1.3 kg/m^2.

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Table 1 – Drying and rain-proof times

WEATHER CONDITIONS	RAIN-PROOF TIME	INTERVAL BEFORE SECOND COAT	DRY TIME (AFTER SECOND COAT)
22°C, up to 65% RH	4 hours	4 hours	24 hours
15°C, up to 65% RH	5 hours	5 hours	24 hours
10°C, up to 65% RH	6 hours	6-7 hours	36 hours
5°C, up to 65% RH	7 hours	7-8 hours	48 hours

Drying times may vary depending on temperature, relative humidity, ventilation, and substrate conditions. Before applying the second coat, ensure that the surface is completely dry. Protect the product from water, rain, and snow during the first hours after application.

APPLICATION "WET ON WET"

Apply the first coat of **WINGUM PRO TECK RAPID ANTIRADICE** at a consumption rate of approximately 1.0-1.2 kg/m^2 and immediately lay **WINTECHNO MAT** (70g/m^2 polyester non-woven reinforcement mat) onto the fresh product.

Apply light pressure with a roller until the reinforcement is completely impregnated and assumes the same colour as **WINGUM PRO TECK RAPID ANTIRADICE**, in order to optimize adhesion (if necessary, add more product from the container).
While the product is still wet, complete the application by applying the remaining 1.0-1.3 kg/m^2. Rain-proof and walkability times are shown in Table 2.

Table 2 – Drying and rain-proof times (wet-on-wet application)

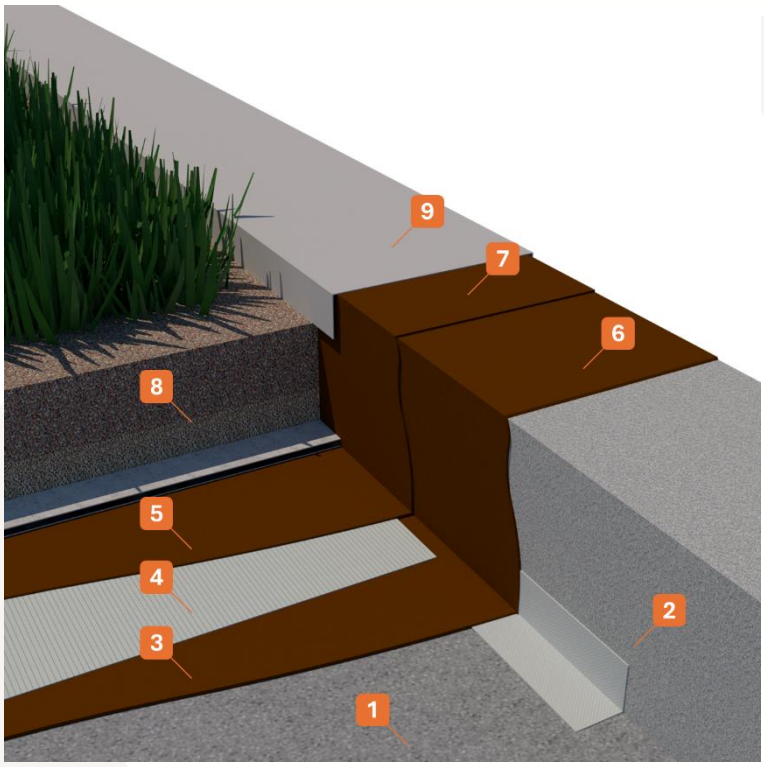
WEATHER CONDITIONS	RAIN-PROOF TIME	DRY TIME
22°C, up to 55% RH	18 hours	48 hours
15°C, up to 55% RH	18 hours	48 hours
10°C, up to 55% RH	24 hours	72 hours
5°C, up to 55% RH	36 hours	72 hours

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On existing bituminous membranes, apply the reinforcement with overlaps staggered relative to the existing joints.
Due to weather exposure and climatic variations, structural movement may occur over time. To ensure a continuous and effective waterproofing layer, it is recommended to apply a minimum of two coats of **WINGUM PRO TECK RAPID ANTIRADICE**.

For vertical applications, it is recommended to extend the **WINGUM PRO TECK RAPID** waterproofing layer at least 20 cm onto the surface. This ensures full protection of horizontal areas by maintaining a continuous waterproofing membrane.

Flower box application



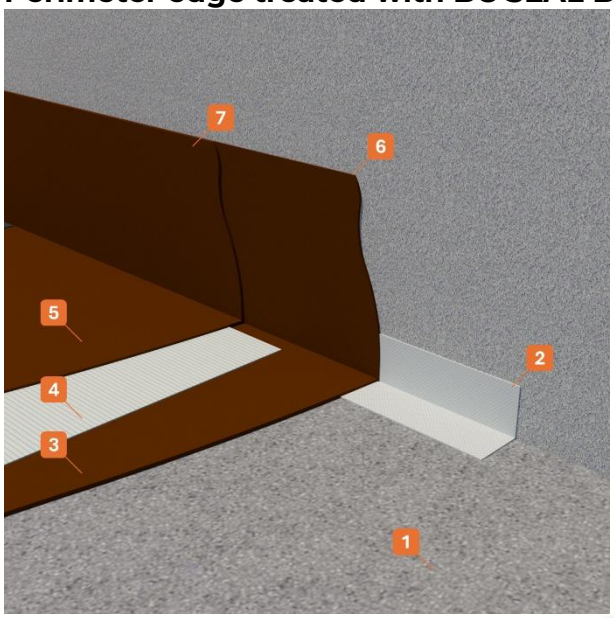
LEGEND

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

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.

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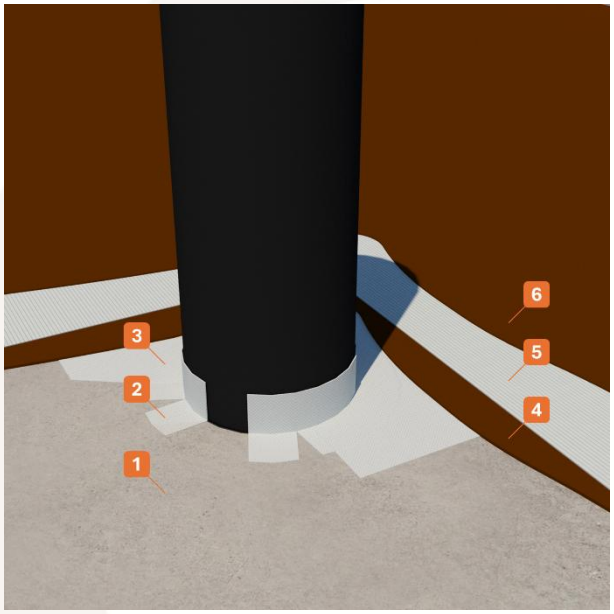
Perimeter edge treated with BC SEAL BAND



LEGEND:

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

Roof vent treated with BC SEAL BAND and BC SEAL PAD

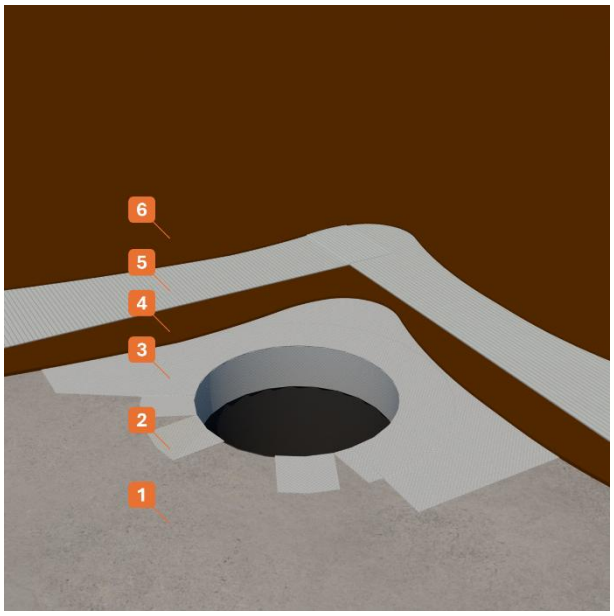


LEGEND:

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 RAPID ANTIRADICE**;
5. **WINTECHNO MAT** reinforcement mat;
6. Second coat of **WINGUM PRO TECK RAPID 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 RAPID ANTIRADICE;**
5. **WINTECHNO MAT** reinforcement mat;
6. Second coat **WINGUM PRO TECK RAPID ANTIRADICE.**

SURFACES WITH JOINTS

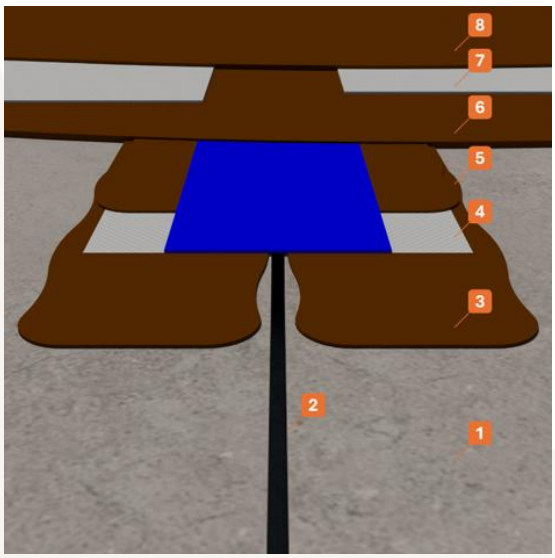
Sealing of joints up to 1 cm wide

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 RAPID 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 RAPID ANTIRADICE**.

Once the product has dried, saturate the joint cover with the final coat of **WINGUM PRO TECK RAPID ANTIRADICE** to complete the sealing.



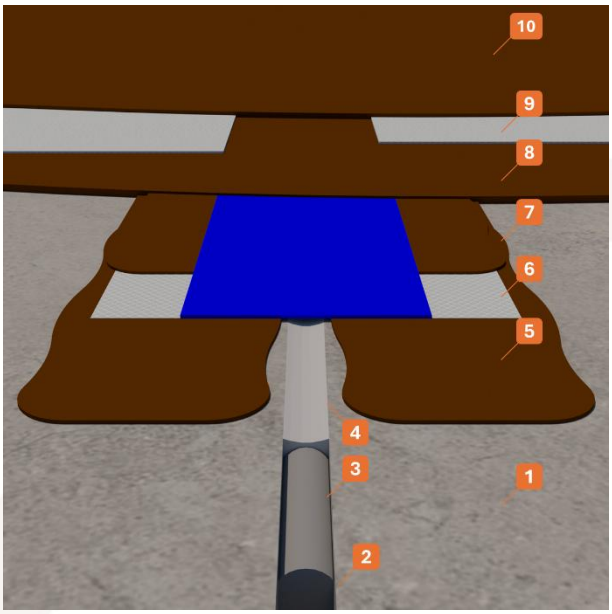
LEGEND

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

1. Structural substrate;
2. Joint;
3. **WINJOINT FOAM,** joint backing rod;
4. **WINJOINT SEAL,** sealant;
5. **WINGUM PRO TECK RAPID ANTIRADICE**;
6. **WINJOINT BAND** Self-adhesive butyl sealing tape;
7. **WINGUM PRO TECK RAPID ANTIRADICE**;
8. First coat of **WINGUM PRO TECK RAPID ANTIRADICE**;
9. **WINTECHNO MAT** Reinforcement layer;
10. Second coat of **WINGUM PRO TECK RAPID 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

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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	STANDARD	RESULTS
Appearance	-	Fluid with high thixotropy
Colour	-	Brown (fresh) Black (once dry)
Density at 20°C	EN ISO 2811-1	1.25 ± 0.10 g/cm³
Solid content		65 ± 3 %
pH	UNI EN 8490-4	9 ± 1
Operating temperature range		From -15°C to +70°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	270 %
Tensile strength without reinforcement	ASTM D 2370	0.8 N/mm^2
Water absorption	ASTM D 471	<20 %
Water resistance	-	Very good (after full drying)
Adhesion to substrate (concrete)	UNI EN 14891	≥1.0 N/mm^2
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/mm^2

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