

DESCRIPTION OF THE PRODUCT

WINGUM PRO TECK RAPID is an elastomeric, bitumen-based, thixotropic, fast-curing liquid waterproofing membrane that is resistant to ponding water, and due to the new generation formulation by the WINKLER R&D Lab, it can be exposed without protection, to UV rays up to a maximum exposure of two years. Formulated with new generation raw materials, it can prevent the penetration of roots meeting the requirements of the UNI EN 13948 standard.

USE FIELDS

Its fast-curing feature, makes it rain-proof after just a few hours after the first coat, allowing start and end of work within the same day (see rain-proof times table).

The product is used for protecting and waterproofing surfaces, including flat surfaces, such as concrete, fibre-cement, wood and brickwork which is intended to hold plants, seeds and roots. This includes planters and raised gardens. It can also be applied on bituminous membranes (both smooth or slated).

SURFACES PREPARATION

Accurately clean the substrate area to eliminate: dust, crumbly, foreign or bonding-proof substances. Apply only on dry surfaces and supports. Check the substrate support area is not wet to avoid onset of air bubbles due to vapour pressure. A practical method to check hidden wet in the support to be treated could be to cover a square metre of the surface - better when exposed to the sun - with a polyethylene sheet of almost 2 tenths, fully sealing it at edges with double-bond tape. After 24-48 check the possible condensation water under it. On powdery floor foundation, in order to allow the adhesion, it is advised to use the preventive application of WINFIX CONCRETE, or you can use WINGUM PRO TECK RAPID ANTIRADICE as well, which has been previously diluted with 20% clean water (1.0L for 5kg bucket, 2L for 10kg bucket and 4L for 20kg bucket). Wait until the layer is dry (about 30 minutes at +20°C) and then apply the product again.

BITUMINOUS MEMBRANES

In case of application on a polymer-bitumen membrane, wait at least 180 days for oxidation before applying WINGUM PRO TECK RAPID ANTIRADICE. Check the condition of the surface is good, in particular looking out for any presence of "crocodile skin effects", reptations, non-adherent overlaps, moisture bubbles and detachments in general and then proceed as described below.

Crocodile skin cracking: if the surface shows this type of phenomenon, evaluate the depth of it, and in case it should be less than 1mm deep, clean thoroughly, for example by vacuuming, and apply the product.

Non-adherent overlaps: check the presence of water under the raised membrane, wait for it to evaporate completely and then seal with WINSEAL, cold, bituminous, rubber sealant. Immediately apply WINGUM PRO TECK RAPID ANTIRADICE.

Moisture bubbles: X-shaped cut the bubbles and wait for the complete evaporation of the underlying water. Seal the membrane again with WINSEAL and immediately apply WINGUM PRO TECK RAPID ANTIRADICE.

For further situations, contact WINKLER technical dept.

METAL SURFACES

On metal substrates, it is recommended to carefully remove any residual rust from the surface to be treated, clean thoroughly and directly apply WINGUM PRO TECK RAPID ANTIRADICE. Any joints between metal sheets must be treated in advance with BC SEAL BAND, a self-adhesive butyl tape coated with non-woven polypropylene. This will prevent any movements from causing cracks and therefore compromising the continuity of the waterproofing layer. In such specific application it is very important to apply the strip with the method called "OMEGA". This consists in making two ends of the belt adhere to the two sheet metal portions to be connected, while leaving the central part of the band free to accommodate the movements and expansion of the substrates

WARNING

Do not add cement nor additives.

Do not use if the packaging is damaged.

Do not add water, if not request by the desired kind of application.

APPLICATION

The product is ready to use, mix briefly before spreading. It can be applied, on dry and clean substrate, with a roller, brush, trowel or airless.

In conditions in which there is a need for a faster rain out, the product will be applied in two coats, spaced by the times shown in TABLE 1.

Apply first layer of WINGUM PRO TECK RAPID ANTIRADICE (about 1 - 1,2 kg/m²) in a uniform coat on the substrate to be treated. Lay over WINTECHNO MAT and completely soak it, applying a slight pressure using the roller. Let the product to fully dry (see TABLE 1). Apply the second coat of WINGUM PRO TECK RAPID ANTIRADICE until getting the consumption indicated in the current technical data sheet (about 1,0-1,3 kg/m²)

TABLE 1

Weather conditions	Rain proof	Second coat	Dry time (after the second coat)
22°C up to 65% U.R.	4 hours	4 hours	24 hours
15°C up to 65% U.R.	5 hours	5 hours	24 hours
10°C up to 65% U.R.	6 hours	6/7 hours	36 hours
5°C up to 65% U.R.	7 hours	7/8 hours	48 hours

Different temperatures and humidity can vary drying times. Before applying the second coat, check that the surface is completely dry.

Protect from water, rain and snow in the first hours of its application

APPLICATION “WET ON WET”

Apply the first coat of WINGUM PRO TECK RAPID ANTIRADICE with a consumption of about 1-1.1kg/m² and immediately lay over WINTECHNO MAT, (70 g/m² polyester non-woven reinforcement mat). Press lightly on the roller until the reinforcement gets the same colour as WINGUM PRO TECK RAPID ANTIRADICE, to optimize adhesion (if necessary, take other product from the package). Then, while the product is still wet, complete the application with the remaining 0.8-0.9kg/m². Rain-proof and walkability times are shown in the TABLE 2

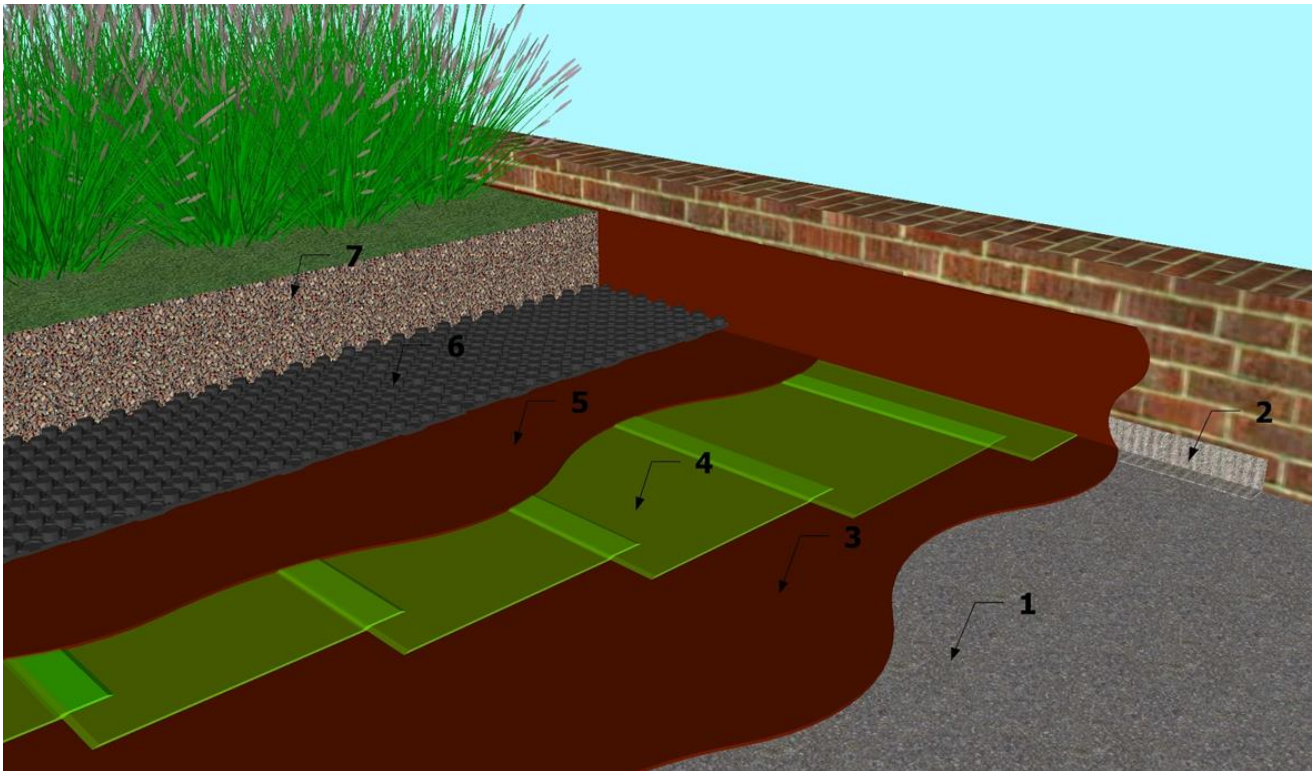
TABLE 2

Weather conditions	Rain proof	Dry time
20°C up to 55% U.R.	18 hours	48 hours
15°C up to 55% U.R.	18 hours	48 hours
10°C up to 55% U.R.	24 hours	72 hours
5°C up to 55% U.R.	36 hours	72 hours

On bituminous membranes, spread the reinforcement staggered with respect to the existing overlaps.

Due to changes in weather and climate, there will be movement within the structure over time. In order to try and obtain a continuous layer, we recommend that a minimum two coats are applied in the system. The second coat must be applied after the first coat is completely cured. If there are vertical applications involved, we recommend that a waterproofing layer of WINGUM PRO TECK RAPID ANTIRADICE continues on the vertical part by 20cm. This will ensure that a waterproofing layer is protecting the horizontal areas

Flower box application



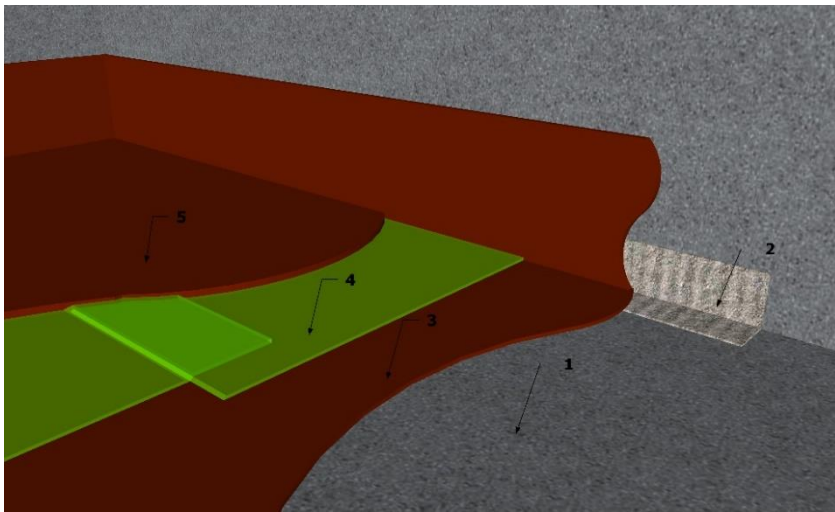
KEY:

1. Planter's foundation;
2. **BC SEAL BAND**;
3. **WINGUM PRO TECK ANTIRADICE** first layer;
4. **WINTECHNO MAT**, 70 g/m² non-woven reinforcement;
5. **WINGUM PRO TECK ANTIRADICE** second layer;
6. Draining pad;
7. Ground.

For reinforcement and sealing of the corners, we recommend the application of butyl tape coated with non-woven polypropylene **BC SEAL BAND**.

For waterproofing external features, including pipes, chimneys and drains in general, use **BC SEAL PAD**, which is our square butyl adhesive pad.

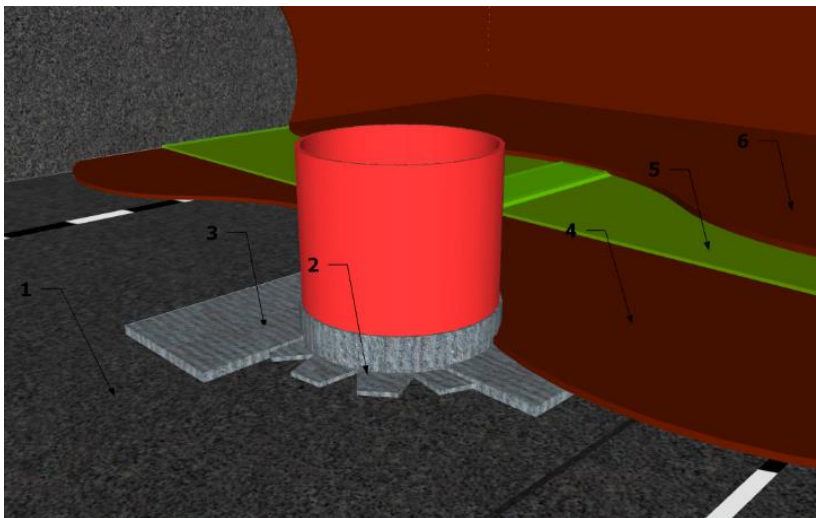
Perimeter edge treated with BC SEAL BAND



KEYS:

1. Structural substrate/ screed
2. **BC SEAL BAND**
3. First coat of **WINGUM PRO TECK RAPID ANTIRADICE**
4. **WINTECHNO MAT**
5. Secondo coat of **WINGUM PRO TECK RAPID ANTIRADICE**

Roof vent treated with BC SEAL BAND and BC SEAL PAD



KEYS:

1. Bituminous membrane
2. **BC SEAL BAND**
3. **BC SEAL PAD**
4. First coat of **WINGUM PRO TECK RAPID ANTIRADICE**
5. **WINTECHNO MAT**
6. Secondo coat of **WINGUM PRO TECK RAPID ANTIRADICE**

SURFACES WITH JOINTS

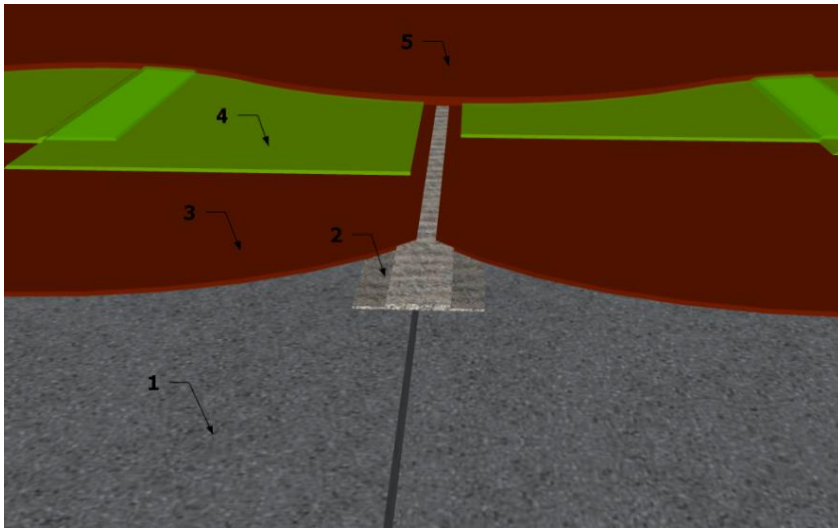
Seal joints **up to 1cm wide**, using **WINJOINT BAND** (waterproof elastic band, made of rubber and polyester fabric, suitable for waterproofing joints), as described below:

After making new joints or restoring the existing ones, apply **WINGUM PRO TECK RAPID** laterally to the joint and for a width that is larger than the joint cover.

Lay the joint cover placing the perforated side strip on the area already treated with **WINGUM PRO TECK RAPID**, the area must be already wet.

Once dried, soak it with a last coat of **WINGUM PRO TECK RAPID**.

SEALING OF JOINTS UP TO 1cm WIDE



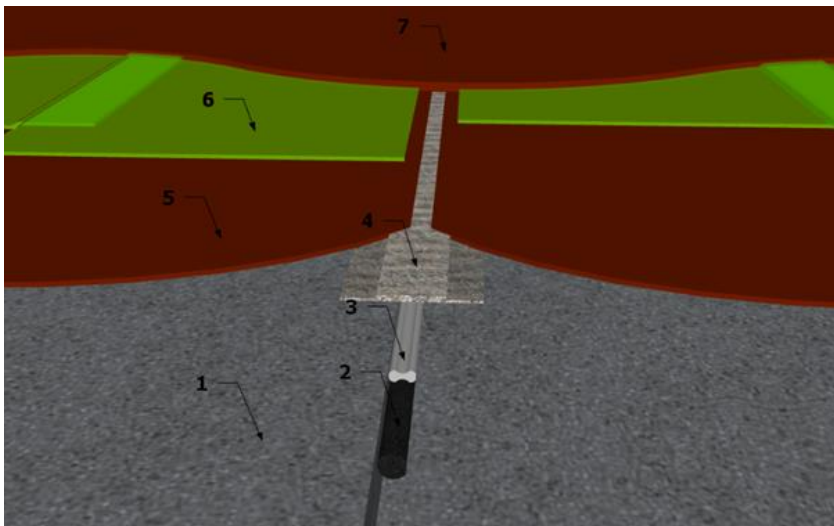
KEYS:

1. Structural substrate/Screed
2. **WINJOINT BAND**
3. First coat of **WINGUM PRO TECK RAPID ANTIRADICE**
4. **WINECHNO MAT**
5. Second coat of **WINGUM PRO TECK RAPID ANTIRADICE**

Seal joints **more than 1cm in wide**, using the system composed by **WINJOINT FOAM** (compressible polyethylene foam backer rod), **WINJOINT SEAL** (polyurethane sealant) and **WINJOINT BAND** as described below:

After making new joints or restoring the existing ones, enter **WINJOINT FOAM** inside the joint to the desired depth and then extrude **WINJOINT SEAL** through the entire length of the joint. Once the sealant has dried, lay **WINJOINT BAND** as previously described.

SEALING OF JOINTS MORE THAN 1cm WIDE



KEYS:

1. Structural substrate/screed
2. **WINJOINT FOAM**
3. **WINJOINT SEAL**
4. **WINJOINT BAND**
5. First coat of **WINGUM PRO TECK RAPID ANTIRADICE**
6. **WINECHNO MAT**
7. Second coat of **WINGUM PRO TECK RAPID ANTIRADICE**

WARNING

Apply WINGUM PRO TECK RAPID ANTIRADICE at temperatures between +5°C and +25°C. The support must have a maximum temperature of +30°C.

If WINGUM PRO TECK RAPID ANTIRADICE has to be applied on a bitumen-polymer membrane, make sure that it has undergone at least 180 days of oxidation.

The temperature, humidity and porosity of the substrate could influence the drying times of the product.

CONSUMPTION

2 - 2.5 kg/m² in two or more coats, by inserting WINTECHNO MAT in between

PACKAGING

5-10-20kg buckets.

Boxes composed of 30 x 1kg pails.

STORAGE

The product in its undamaged packaging can be stored for 24 months.

Please store it at temperatures between +5°C and +35°C. No frost-proof.

SAFETY INSTRUCTIONS

PRECAUTIONS

For information about safety, user must refer to the most recent Safety Data Sheet, edited in accordance with the regulations in force, which contains physical, toxic and other data about the product in use.

ECOLOGY

Do not through out the product and/or empty containers in the environment. Consult the most recent Safety Data Sheet for further information about disposals.

TECHNICAL DATA (AVERAGE VALUES) PRODUCT FOR PROFESSIONALS

Appearance	Fluid with high thixotropy
Color	Brown (fresh) Black (dried)
Density at 20°C	1.25 ± 0.10 g/cm ³
Dry residue	65 ± 3 %
pH	9.5 ± 1 %
Operating temperatures	From -15°C to +70°C

* All data are intended at a temperature of 22 ° C and 50% humidity.

OPERATIONAL PRODUCT PERFORMANCES

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 (EN 14891): concrete	≥1.0 N/mm ²
Crack-Bridging (EN 14891) +23°C	≥1.5 mm
Crack-Bridging (EN 14891) -5°C	≥1.0 mm
Elongation with reinforcement (ASTM D 2371)	30%
Tensile strength with reinforcement (ASTM D 2370)	7.0 N/mm ²

* All tests were performed at a temperature of +22°C and with 50% humidity.

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. WINKLER S.r.l. reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.