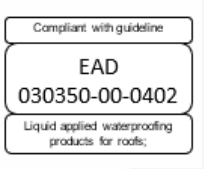
PRODUCT DATA SHEET

ITEM CODE: SEE DN
ISSUE DATE: 22/07/2026
REVIEW: NO. 3

CE

WINGUM PLUS® H2O REFLEX RAPID



DESCRIPTION OF THE PRODUCT

Water-based, elastomeric, fast-curing, white liquid protective membrane formulated with special fillers and additives that provide high solar reflectivity and infrared emissivity. The product is resistant to water ponding and is also suitable for applications on large surface areas.
Formulated by WINKLER Research & Development Laboratories.

APPLICABLE REGULATIONS

WINGUM PLUS® H_2O REFLEX RAPID complies with the following standards and certifications:

1. **EAD 030350-00-0402 (formerly ETAG 005)** guideline: liquid -applied roof waterproofing systems
2. Solar Reflectance Index (SRI) according to **ASTM E 1980-11**
3. INITIAL SRI: **106**

FIELDS OF USE

The fast-curing properties make te product rain-proof a few hours after application of the first-coat, allowing work to start and be completed within the same day (refer to the rain-proof table). Its formulation provides high flexibility and stability at very low temperatures, and it is resistant to normal foot traffic.

WINGUM PLUS® H_2O REFLEX RAPID is suitable for applications where waterproofing is required, particularly on flat surfaces subject to water stagnation. The product offers excellent resistance to ageing and UV radiation.
It is suitable for waterproofing concrete substrates, fiber-cement slabs, metal sheds (including oxidizable substrates), wood, ceramic tiles or natural stone flooring, masonry, bitumen-polymer membranes (oxidized for a minimum of 180 days), XPS, EPS, and polyurethane insulation panels.

winkler® Advanced Building Material

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

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose and brittle material, and any foreign or non-adherent substances. On irregular substrates, it is advisable to apply **WINFIX CONCRETE** beforehand to promote adhesion.

For floor levelling, use **WINLIVEL**, a self-levelling compound for irregularities from 1 to 15 mm, or **WINLIVEL RAPID**, a fast-drying self-levelling compound for irregularities from 1 to 20 mm.
To create a new screed, use **WINPLAN 370**, a quick-drying screed, or **WINPLAN PRO**, a fast-drying screed with low water absorption.
Check the substrate for the present of moisture to prevent the formation of air bubbles caused by vapour pressure.
The recommended method is to apply a polyethylene sheet sealed with adhesive tape to the side of the surface exposed to the sun and to check for possible condensation after 24 hours.
If no condensation is present, **WINGUM PLUS® H_2O REFLEX RAPID** may be applied. If condensation is detected, allow the substrate to dry completely before application.

RECOMMENDATIONS

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

WARNINGS

In case **WINGUM PLUS® H_2O REFLEX RAPID** is applied on a bituminous membrane, the membrane must have undergone at least 180 days of oxidation before product application.
Apply **WINGUM PLUS® H_2O REFLEX RAPID** at temperatures between +5°C and +30°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.

APPLICATION

Where faster rain resistance is required, apply the product in two coats, observing the time intervals indicated in Table 1.

The product is ready to use and can be applied using a roller, brush, steel trowel, and airless spray equipment. Before application mix it briefly, either manually or using a low-speed drill.

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

Apply the first coat of **WINGUM PLUS® H_2O REFLEX RAPID** (approximately 1.0-1.1 kg/m²) evenly over the substrate. Immediately embed the reinforcement **WINTECHNO MAT** (70g/m² polyester nonwoven) into the fresh coating and ensure full impregnation by lightly pressing with a roller. Allow the product to dry completely (see Table 1).
Apply the second coat of **WINGUM PLUS® H_2O REFLEX RAPID** to achieve the recommended consumption indicated in the current Technical Data Sheet (approximately 0.8-0.9 kg/m²).

TABLE 1 – DRYING TIME ACCORDING TO WEATHER CONDITIONS

WEATHER CONDITIONS	RAIN-PROOF	SECOND COAT	WALKABILITY (AFTER SECOND COAT)
22°C – up to 65% RH	4 hours	4 hours	48 hours
15°C – up to 65% RH	5 hours	5 hours	48 hours
10°C – up to 65% RH	6 hours	6-7 hours	48 hours
5°C – up to 65% RH	7 hours	7-8 hours	48 hours

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

For application on substrates with irregular geometry (e.g. corrugated sheet metal), the product may be applied in two coats without the use of **WINTECHNO MAT** reinforcement.

APPLICATION "WET ON WET"
Apply the first coat of **WINGUM PLUS® H_2O REFLEX RAPID** at a rate of approximately 1-1.1 kg/m² and immediately lay **WINTECHNO MAT** (70 g/m² polyester non-woven reinforcement mat) over the wet layer. Press lightly with a roller until the reinforcement mat is fully impregnated and takes on the same colour as the product to ensure optimal adhesion. If necessary, use additional product from the package to achieve full saturation.

While the first coat is still wet, complete the application with the remaining 0.8-0.9 kg/m² of **WINGUM PLUS® H_2O REFLEX RAPID**. Rainproofing and walkability times are indicated in TABLE 2.

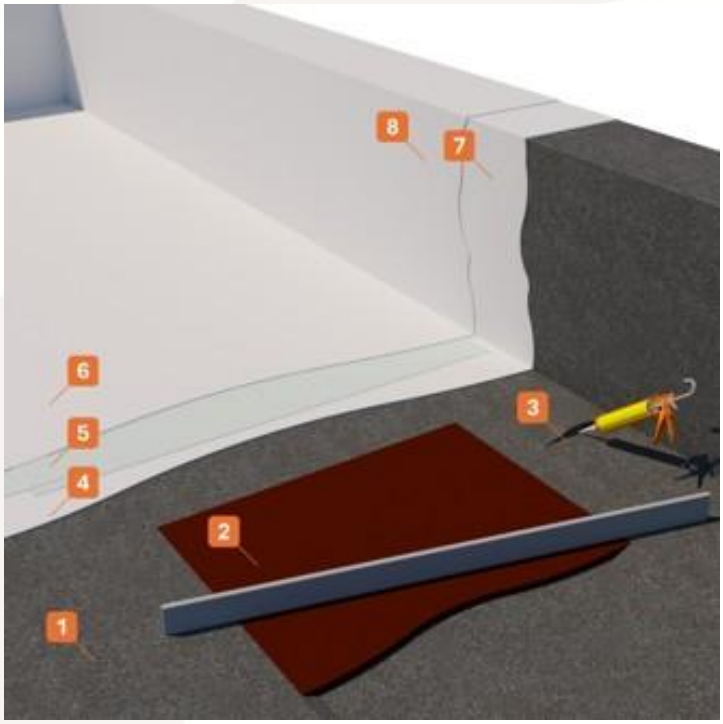
Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

CE

TABLE 2 – RAIN-PROOF AND WALKABILITY TIMES (WET ON WET APPLICATION)

WEATHER CONDITIONS	RAINPROOF	WALKABILITY (AFTER APPLICATION)
20°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

Drying times may vary depending on temperature and relative humidity. Protect the applied product from water, rain, and snow during the initial hours after application.



LEGEND

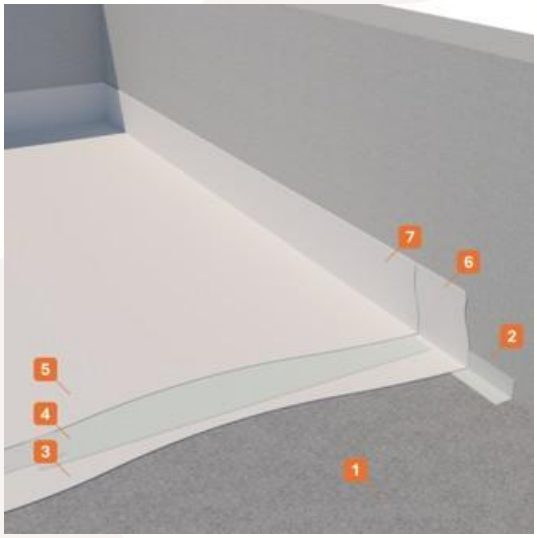
1. Existing bituminous membrane;
2. **WIN BITUROOF** levelling compound;
3. Overlap restoration with **TIXO SEAL**;
4. **Wingum Plus H_2O REFLEX RAPID**, first coat;
5. **Wintechno Mat**, 70 g/m² non-woven reinforcement fabric;
6. **Wingum Plus H_2O REFLEX RAPID**, second coat;
7. **Wingum Plus H_2O REFLEX RAPID**, first coat vertical upstand;
8. **Wingum Plus H_2O REFLEX RAPID**, second coat on the vertical upstand;

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

To maintain and extend the reflectance of **WINGUM PLUS® H_2O REFLEX RAPID**, it is recommended to apply **WINCLEAN**, a transparent protective membrane with low dirt retention, once the product is completely dry (at least 24 hours after application of the final coat).
The recommended consumption is approximately 80 g/m^2. Periodic cleaning of the surface is also advised to maintain performance.

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 / slope screed;
2. **BC SEAL BAND,** self-adhesive butyl sealing tape;
3. First coat of **WINGUM PLUS® H_2O REFLEX RAPID;**
4. **WINTECHNO MAT;**
5. Second coat of **WINGUM PLUS®H_2O REFLEX RAPID;**
6. **Wingum Plus H_2O REFLEX RAPID**, first coat on the vertical upstand;
7. **Wingum Plus H_2O REFLEX RAPID**, second coat on the vertical upstand;

winkler® Advanced Building Material

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

Drain detail treated with BC SEAL BAND e BC SEAL PAD



LEGEND

1. Structural substrate / slope 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 REFLEX RAPID;**
5. **WINTECHNO MAT**;
6. Second coat of **WINGUM PLUS® H_2O REFLEX RAPID.**

Roof vent treated with BC SEAL BAND and BC SEAL PAD



LEGEND

1. Structural substrate / slope screed;
2. **BC SEAL BAND**, self-adhesive butyl sealing tape;
3. **BC SEAL PAD**, self-adhesive butyl patch;
4. First coat of **WINGUM PLUS® H_2O REFLEX RAPID;**
5. **WINTECHNO MAT**;
6. Second coat of **WINGUM PLUS® H_2O REFLEX RAPID.**

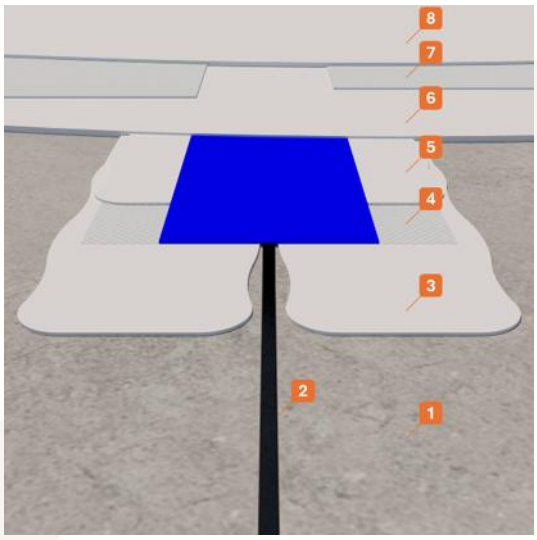
winkler® Advanced Building Material

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

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 REFLEX RAPID** laterally along both sides of the joint, ensuring a coverage width greater 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 REFLEX RAPID** to ensure proper adhesion.



LEGEND

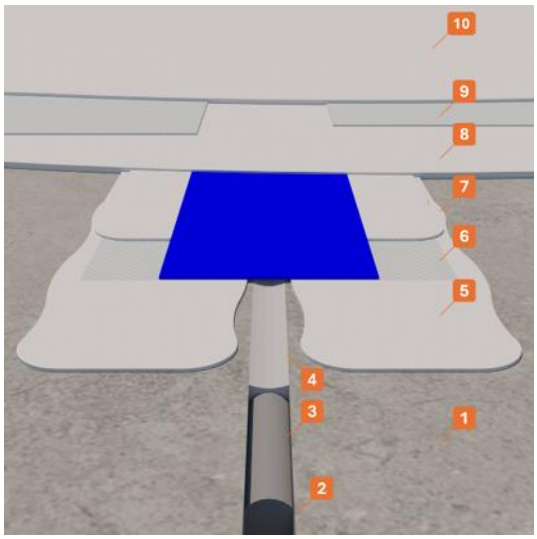
1. Structural substrate / slope screed;
2. Screed joint;
3. **WINGUM PLUS® H_2O REFLEX RAPID;**
4. **WINJOINT BAND;**
5. **WINGUM PLUS® H_2O REFLEX RAPID;**
6. First coat of **WINGUM PLUS® H_2O REFLEX RAPID;**
7. **WINTECHNO MAT**;
8. Second coat of **WINGUM PLUS® H_2O REFLEX RAPID.**

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.

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

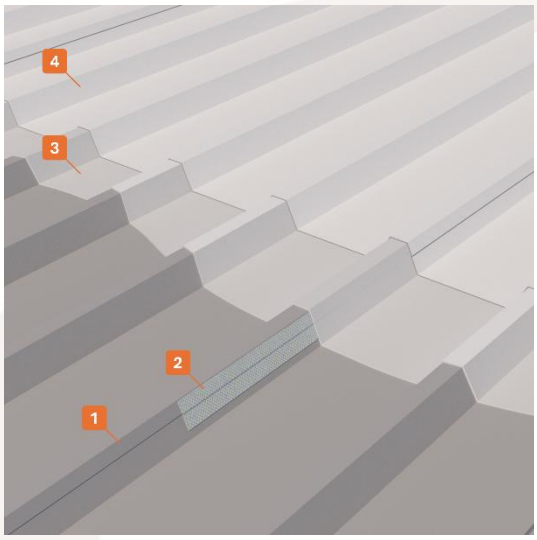
PRODUCT DATA SHEET



LEGEND

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

Applications on metal roofs



LEGEND

1. Metallic panel;
2. **BC SEAL BAND,** self-adhesive butyl sealing tape;
3. First coat of **WINGUM PLUS® H_2O REFLEX RAPID;**
4. Second coat of **WINGUM PLUS® H_2O REFLEX RAPID.**

DRYING TIMES (at 20° C)

Under standard conditions (+22°C and 55% RH), the product becomes rain-proof and suitable for recoating approximately 4 hours after application of the first coat. Before applying the second coat, ensure that the previous coat is completely dry.

Approximately after 48 hours after application of the final coat, the product develops sufficient mechanical strength to allow foot traffic.
Drying times may vary depending on ambient temperature and relative humidity.

winkler® Advanced Building Material

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

CE

RAIN-PROOF AND SECOND-COAT DRYING TIMES

WEATHER CONDITIONS	RAINPROOF	SECOND COAT
+ 22°C up to 65% RH	4 hours	4 hours
+ 10°C up to 55% RH	6 hours	6-7 hours

CONSUMPTION

1.2 - 1.4 kg/m² in two coats
1.8 – 2.0 kg/m² in two coats with **WINTECHNO MAT** reinforcement embedded

PACKAGING

5-10-20 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.

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).

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

PRODUCT DATA SHEET

CE

TECHNICAL FEATURES
(average value)

FEATURES	STANDARD	RESULTS
Appearance	-	Fluid paste
Colour	-	Reflecting white
Specific weight at 20°C	UNI EN ISO 2811-1	1.40 ± 0.05 g/cm³
Solid content	UNI EN ISO 3251	73 ±3 %
pH	UNI 8490-4	9±1
Brookfield viscosity at 20°C	UNI EN 8490	18.000 ± 2.000 cPs

PRODUCT PERFORMANCES IN SERVICE

FEATURES	STANDARD	RESULTS
Operational temperature		-30°C to +80°C
Resistance to atmospheric agents		Good
Resistance to UV rays		Excellent
Impermeability	UNI EN 1928	≥ 1.0 bar
Tensile strength at break	UNI EN ISO 527-1	≥ 1.50 N/mm²
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/mm²
Elongation at break after accelerated ageing	UNI EN ISO 527-1	≥ 100 %
Adhesion strength to concrete	UNI EN 1542	≥ 1.0 N/mm²
Water absorption	ASTM D 471	≤ 14% by weight

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

PRODUCT DATA SHEET

CE

SOLAR REFLECTANCE AND EMISSIVITY PROPERTIES

FEATURES	STANDARD	RESULTS
Solar Reflectance Index	ASTM E 1980	106 SRI
Solar Reflectance Factor	ASTMVE 903-96	0.84 ρe
Solar Absorptance	ASTM E903-96	0.16 a
Emissivity	ASTM C 1371	0.92 ε

PRODUCT FOR PROFESSIONAL USE ONLY

DISCLAIMER AND LEGAL NOTICE – WINKLER

The information and instructions contained in this Technical Data Sheet are prepared on the basis of WINKLER's best technical and application knowledge and are provided for guidance only. However, since WINKLER cannot directly control site conditions or the execution of works, these indications are in no way binding on WINKLER.

The data provided do not exempt the purchaser from the responsibility of verifying, through practical tests and comprehensive applications, the suitability of the product for the intended use and of determining whether it is appropriate for the desired application; the user assumes all responsibility arising from its use. The customer is also responsible for verifying that this Technical Data Sheet is valid for the batch of product of interest and that it has not been superseded by later editions. The updated Technical Data Sheet is available on WINKLER's official website.

The contents of this Technical Data Sheet may be reproduced in other project documents, but the resulting document may under no circumstances replace or supplement the Technical Data Sheet in force at the time of application of the WINKLER product. Any alteration of the text or conditions contained in this Technical Data Sheet or derived from it releases WINKLER from any liability. WINKLER reserves the right to make technical changes of any kind to its products and/or Technical Data Sheets without notice. This revision cancels and replaces all previous ones.

winkler® Advanced Building Material

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