



# WINGUM PLUS H2O

## Technical Data Sheet

Art. code see DDT

Date of issue 20Jan2016

Edition 160120.01  
replaces 141010.01

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### WINGUM PLUS H<sub>2</sub>O

(Cool Roof Water-Based Liquid Waterproofing Fibered Membrane)

### DESCRIPTION OF THE PRODUCT

**WINGUM PLUS H<sub>2</sub>O** is a roofing/re-roofing liquid membrane system developed by WINKLER Research & Development Laboratories. **WINGUM PLUS H<sub>2</sub>O** is a colored water-based liquid waterproofing membrane based on modified resins and reinforced with synthetic fiber.

### USE FIELDS

**WINGUM PLUS H<sub>2</sub>O** ensures waterproofing of flat/low-slope as well as steep roofs, and decks or terraces. It can be used in locations subject to ponding water; bears light foot traffic and have a superior resistance to U.V. rays and to adverse climate conditions. It can be applied over a wide variety of substrates such as: concrete, fiber-cement boards, masonry, concrete roof tiles, construction-grade wood, exterior-grade plywood, metal, smooth (oxidized for minimum of 90 days) or granular modified bitumen membranes and BUR cap sheets, and EPDM.

**WINGUM PLUS H<sub>2</sub>O** shall be applied using the polyester reinforcement mat **WINTECHNO MAT** over the entire roof surface (except when applied over metal or concrete roof tiles substrates).

### SURFACE PREPARATION

Clean all support surfaces thoroughly in order to eliminate dirt, dust, and loose materials, any form of oil or grease and foreign or bonding-proof matters. The substrate surface must be completely dry prior to the application of **WINGUM PLUS H<sub>2</sub>O**. Check for hidden moisture contained in the support to avoid onset of air bubbles and detachment of the product due to vapor pressure. In many re-roofing projects the surface of the roof appears dry, but the insulation boards under, may retain water, due to problem with the old roof. The applicator must pay close attention to the existence of potential moisture vapors trapped in the insulation boards, and make all necessary repairs to eliminate the

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humidity.

A practical way to find out if there is hidden humidity contained in the support is by applying a polyethylene sheet over the surface of the support and seal the perimeter of this sheet sealed with a tape. Leave this exposed to the sun and check for water condensation after 24 hours. If there is no condensation water, proceed with the application of **WINGUM PLUS H<sub>2</sub>O**, contrary, allow for full drying.

### APPLICATION

**WINGUM PLUS H<sub>2</sub>O** is ready to use and can be applied by roller, brush, large paintbrush, steel plastering trowel or airless spraying gun. Apply **WINGUM PLUS H<sub>2</sub>O** only on dry surfaces. Apply each coat and allow for complete curing at temperature (ambient and substrate) between 41F and 104F (5°C and 40°C). Apply the product in weather conditions that can ensure its full curing without the presence of water (generated from rain, fog, and frost or from other sources) or other liquid materials. Do not apply the product if precipitations are imminent.

Consumption of material is affected by various factors, such as: temperature of ambient and/or substrate, air humidity, method of application, substrate porosity, waste, etc. Contractor shall take in consideration all such factors when estimating the necessary of material, as consumption values included herein do not take in consideration these factors.

After completing the surface preparation proceed with the application of the accessories, as required by your particular case and/or prescribed in the specification of your project:

- In case of application over modified bituminous membranes or other bituminous surfaces, ensure that a minimum of 90 days of oxidation (or sometimes longer for BUR or some bituminous emulsions and mastics) has passed since the last application of respective bituminous products.
- Fill small cracks and gaps larger than 1/8 inch (3 mm) with a fast setting cement mortar mixed with latex, for improved elasticity; Add proper size sand to the mortar mixture for larger cracks or gaps.
- Wall to floor type corners and other penetrations must be covered with the waterproofing self-adhesive band **BC SEAL BAND**.
- Structural and/or contraction joints must be sealed using the waterproofing elastic band **WINJOINT BAND**. The application of **WINJOINT BAND** should be done as follow:
  1. Apply **WINGUM PLUS H<sub>2</sub>O** along each side of the joint without covering the

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joint line.

2. Cover the joint with the **WINJOINT BAND** (the central part of the band will cover the joint line and the lateral wings of the band will cover the side-lines of **WINGUM PLUS H<sub>2</sub>O**).
  3. Cover the lateral wings of the **WINJOINT BAND** with **WINGUM PLUS H<sub>2</sub>O**.
- Ensure that all materials used prior to the application of **WINGUM PLUS H<sub>2</sub>O** are fully dry

When installed with no WINTECHNO MAT\* (polyester reinforcement mat) apply **WINGUM PLUS H<sub>2</sub>O** in two coats at a collective consumption rate approximately between 2.50 – 2.90 gallons / 100 Sq.ft. (1.4 – 1.6 kg/m<sup>2</sup>) (depending on the porosity of the surface)\*\*, corresponding to an average dry thickness of 33 mils (0.85 mm). At this collective consumption rate, one pail yields approximately between 135 and 156 Sq. ft. (12.5 – 14.5 m<sup>2</sup>) in two coats. Allow minimum of 24 hours for curing between the completion of the base coat and the application of top coat.

1. Average consumption rate for **base coat** is between 1.3 – 1.5 Gal / 100 Sq. ft. (0.75 – 0.85 Kg. / m<sup>2</sup>). At this consumption rate, one pail yields approximately between 260 and 300 Sq. ft. of **base coat**.
2. Average consumption rate for **top coat** is between 1.2 – 1.4 Gal / 100 Sq. ft. (0.65 – 0.75 Kg. /m<sup>2</sup>). At this consumption rate, one pail yields approximately between 280 and 325 Sq. ft. of **top coat**.

When installed with WINTECHNO MAT\* (polyester reinforcement mat) apply **WINGUM PLUS H<sub>2</sub>O** in two coats, a **base coat** with embedded WINTECHNO MAT and a **top coat**. The collective consumption of **both coats** is between 3.28 and 3.65 Gal. / 100 Sq. ft. (1.8 to 2 Kg / m<sup>2</sup>) (depending on the porosity of the surface)\*\*, which corresponds to an average dry thickness of 49 mils (1.25 mm).

Proceed with the application following these subsequent steps:

1. Apply the **base coat** of **WINGUM PLUS H<sub>2</sub>O** at an average consumption rate of between 2.18 and 2.55 Gal / 100 Sq. ft. (1.2 and 1.4 Kg / m<sup>2</sup>) collectively **below** and **over** the **polyester mat** (WINTECHNO MAT) as follows:
  - Apply between 1.63 and 2 gallons /100 Sq. ft. (0.9 – 1.1 kg/m<sup>2</sup>) (depending on the porosity of the surface) directly over the substrate (**below** the **polyester mat**).
  - Immediately lay the **polyester mat** (WINTECHNO MAT) onto the wet coat of material. Ensure that the entire polyester mat is fully embedded into the liquid membrane, with no wrinkles and/or with no voids in between the mat and the liquid membrane. Press the mat, from the center to left and from center to the right in order to avoid formation of wrinkles. Exert only light pressure in order to avoid material from bleeding out from under the mat.

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- While using the roll to fully embed the mat, apply 0.55 Gal. / 100 Sq. ft. (0.3 Kg. / m<sup>2</sup>) **over the polyester mat**. Ensure the edges of the mat are covered in order to avoid formation of fish-mouth after curing.

Allow **base coat** with embedded **polyester mat** (WINTECHNO MAT) to cure for minimum of 24 hours from the completion of the application at the prescribed temperature range. Avoid precipitations, heavy dew, fog or other liquid materials to come in contact with the newly applied product for at least 24 hours after completion of application.

2. After 24 hours, inspect the base coat with embedded polyester mat for eventual voids, bubbles, or other nonconforming signs that may have affected complete, uniform and proper curing. At this time, correct any of these signs as soon as possible. Should small "soft pockets" be noticed, cut the surface skin open, remove any possible excess uncured material and let dry. Glue down the open pocket as soon as dry, using WINSEAL. "Fish-mouth", wrinkles, or voids, shall be cut and removed. All cuts in the **base coat** with embedded **polyester mat** shall be patched with WINTECHNO MAT (cut to size to cover at least one inch in excess across the revealed portion) embedded into fresh material and allow full curing.
3. After all eventual repairs are fully dry proceed with the application of the **top coat**. Apply **top coat** of WINGUM PLUS H2O at an approximate rate of 1.1 Gal. / 100 Sq. ft. (0.6 Kg. / m<sup>2</sup>). Avoid precipitations, heavy dew, fog or other liquid materials to come in contact with the newly applied product for at least 24 hours after completion of application. Allow the entire membrane to fully cure for minimum 36 hours from the completion of the application at the prescribed temperature range.

One pail yields approximately between 153 to 179 Sq. ft. (14 – 16.5 m<sup>2</sup>) of **base coat** with embedded **polyester mat** (WINTECHNO MAT), or 355 Sq. ft. (33 m<sup>2</sup>) of the **top coat**, or between 107 and 119 Sq. ft. (10 – 11 m<sup>2</sup>) of both coats with embedded **polyester mat** (WINTECHNO MAT). Always use the **WINTECHNO MAT** for a warranted roof system.

## WARNING

\* Application with no WINTECHNO MAT shall be performed over metal or roof tiles only. Application with WINTECHNO MAT shall be performed over the entire roof surface for all roofs larger than 500 Sq. ft. except when applied over metal or concrete roof tiles substrates.

\*\*Besides the porosity of the substrate other factors such as ambient and substrate temperature, humidity, method of application, waste, etc. will influence the actual consumption. Contractor shall consider all such factors when calculating material

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estimate. Any estimate produced by WINKLER USA is strictly based on the values contained herein without the consideration of such factors and is given strictly for informal approximation of material.

For application over smooth modified bituminous membranes or other bituminous surfaces, ensure that a minimum of 90 days of oxidation (or sometimes longer for some bituminous emulsions and mastics) has passed since the last application of respective bituminous products.

Conduct an infrared scan to check the substrate for hidden moisture in within the substrate and apply only when substrate is completely dry.

Application temperature range of 41F and 104F (5°C and 40°C) refers to both substrate and ambient temperatures.

Use in within sixty (60) days from the date of purchase.

Do not apply when rain is imminent.

Do not add water, additive or solvents.

Do not use if the packaging damaged.

Always performs a mock-up test prior to the application of **WINGUM PLUS H<sub>2</sub>O** at full scale. If still in doubt with anything, contact our Technical Department with questions or concerns.

### CONSUMPTION

- With No WINTECHNO MAT (polyester reinforcement mat) embedded:  
2.50 – 2.90 gallons/100 sq.ft. (1.4 – 1.6 kg/m<sup>2</sup>) in two coats, corresponding to an approximate coverage per pail between 135 – 156 sq.ft. (12.5 – 14.5 m<sup>2</sup>) depending on the porosity of the substrate.
- With WINTECHNO MAT (polyester reinforcement mat) embedded:  
3.28 and 3.65 Gal. / 100 Sq. ft. (1.8 to 2 Kg / m<sup>2</sup>) in two coats (collectively **base coat** with embedded WINTECHNO MAT and **top coat**), corresponding to an approximate coverage per pail between 107 – 119 Sq. ft. (10 – 11 m<sup>2</sup>) depending on the porosity of the substrate.

### PACKAGING

3.91 gallons per pail; Net Weight: 44.1 Lbs. (20 kg)

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### TOOL MAINTENANCE

Hand wash with water before the product fully dries.

### STORAGE

The product can be stored in its undamaged package for 24 months. Please store in a shaded and protected place at temperatures between 41F and 104F (5°C and 40°C). Not frost-proof.

### SAFETY INSTRUCTIONS

#### PRECAUTIONS

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

#### ECOLOGY

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

### TECHNICAL FEATURES

#### PRODUCT FEATURES

Aspect	Fibered fluid paste
Color	White / grey / red / green
Specific weight at 68F (20°C)	11.27 +/- 0.05 lbs. / gallon (1.35 +/- 0.05 g/cm <sup>3</sup> )
Solid content	65 +/- 3 %
Brookfield viscosity at 68F (20°C)	22,000 +/- 2,000 cps
VOC	14.03 g/liter

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### OPERATIONAL PRODUCT PERFORMANCES

Meets or exceeds ASTM D-6083

Resistant to temperatures	-4F to 176F (-20°C +80°C)
Resistance to atmospheric agents	Good
Resistance to U.V. rays	Good
Resistance to ponding water	Good

Adhesion after sun-rain cycles, 25 cycles (UNI 10686: 1998)

Support	Before cycles	After cycles	Request
Concrete	1.3 N/mm <sup>2</sup>	1.04 N/mm <sup>2</sup>	≥ 1.0 N/mm <sup>2</sup>
Ceramic	1.2 N/mm <sup>2</sup>	1.02 N/mm <sup>2</sup>	≥ 1.0 N/mm <sup>2</sup>

Tensile and elongation strength at break (DIN 53504: 1985)

Longitudinal

Resistance at break (N/mm <sup>2</sup> )	Elongation (%)
3.08	180

Transversal

Resistance at break (N/mm <sup>2</sup> )	Elongation (%)
2.85	135

Resistance to abrasion ETAG 008

Number of passages	Weight loss (%)
10,000	0

Resistance to abrasion ETAG 008 after 24 hours of immersion in water with PH 5.5

Number of passages	Weight loss (%)
10,000	0

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