PRODUCT DATA SHEET

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REVIEW: NO. 9

CE

GEV-EMICODE EC 1 PLUS very low emission

WINGRIP® BITUMINOSO

COMPLYING WITH DIRECTIVE
UNI EN 14891
DM 01 P
LIQUID-APPLIED WATERPROOFING PRODUCTS FOR USE BENEATH CERAMIC TILING BONDED WITH ADHESIVES

DESCRIPTION OF THE PRODUCT

Bitumen waterproofing adhesion promoter based on high-quality polymers and selected fillers in an aqueous dispersion. Its formulation provides exceptional crack-bridging capability and excellent waterproofing performance.
Formulated by WINKLER Research & Development Laboratories.

APPLICABLE REGULATIONS

WINGRIP® BITUMINOSO complies with the following standards:

- **UNI EN 14891**: Liquid-applied waterproofing product for use under ceramic tiles installed with cement-based adhesives
- **ANSI A 118.10**: US national standard for waterproofing membranes for the installation of ceramic and stone tiles
- **ANSI A 118.12**: US national standard for membranes suitable for crack isolation under ceramic and stone tiles
- **EC1 PLUS Certification**: **EMICODE®-**certified product indicating very low emissions of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

FIELDS OF USE

WINGRIP® BITUMINOSO is a ready-to-use, very low environmental impact product.
It has been specifically formulated as a bonding agent and for the creation of a waterproofing layer for the installation of ceramic tiles on balconies, showers, bathrooms, and swimming pools.

The product is easy to apply on both horizontal and vertical surfaces and is suitable for application over existing tiles or concrete blocks. It forms an elastic yet very hard layer, ensuring excellent adhesion to cement-based tile adhesives.

Thanks to its special formulation, **WINGRIP® BITUMINOSO** does not require any reinforcement or special primers; the use of a suitable adhesive is sufficient.

When used in combination with adhesives from the **WINKLER** range, these products are fully covered by the specific insurance policy issued by REALE MUTUA ASSICURAZIONI.

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Recommended Adhesives (UNI EN 12004):

JOCKOL C1
ROYAL C2
ROYAL SUPER C2T
ROYAL SUPER SP C2T
ROYAL FAST C2FT
ROYAL EXTRA C2TE
ROYAL FLEX C2TES1

WINGRIP® BITUMINOSO is fast-drying and can be overlaid after approximately 7 hours under normal climatic conditions.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, loose or friable material, and any substances that may impair adhesion. The product must be applied on a dry surface.

Check the substrate for moisture to prevent bubble formation due to vapour pressure. A recommended method is to cover a portion of the surface exposed to sunlight with a sheet of polyethylene, sealed with adhesive tape, and inspect for condensation after 24 hours.

If no condensation is observed, proceed with the application of **WINGRIP® BITUMINOSO**; otherwise, wait until the substrate is completely dry.

RECOMMENDATIONS

Do not add any additives.
Do not use the product if the packaging is damaged.
Do not add with water.

WARNINGS

Before application, it is recommended to repair any surface irregularities, reattach any loose tiles, and check for hidden moisture to prevent vapour pressure-related issues.

Avoid application immediately before rain or on wet surfaces. Protect the product during the first 24 hours after application from water, rain, and snow. Do not apply in conditions of high nighttime humidity.

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Do not apply any cementitious layer over **WINGRIP® BITUMINOSO** before it has completely dried. For vertical applications, it is recommended not to use coverings exceeding 25 kg/m² in weight.

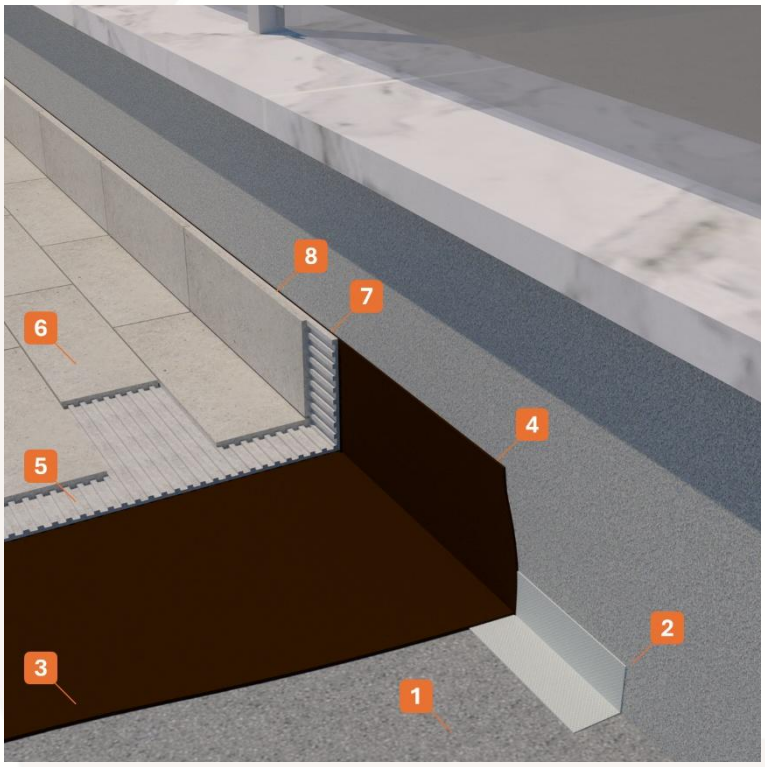
Apply the product at temperatures between +5°C and +35°C. Extremely high or low storage temperatures may affect the product's viscosity. To ensure optimal workability, it is recommended to store **WINGRIP® BITUMINOSO** at approximately 20°C for at least 24 hours prior to use.

APPLICATION

Mix the product thoroughly before use to ensure homogeneity. **WINGRIP® BITUMINOSO** is ready-to-use and can be applied with a brush, roller, or airless spray.
Apply the product in a single coat; no primer is required.

To ensure waterproofing performance, make sure that **WINGRIP® BITUMINOSO** is applied as a continuous and uniform layer, easily verified by its deep black colour.

Horizontal application build-up and corner detail



LEGEND

1. Structural substrate / slope-forming screed;
2. **BC SEAL BAND,** self-adhesive butyl strip;
3. **WINGRIP BITUMINOSO;**
4. **WINGRIP BITUMINOSO**, vertical upstand;
5. Tile adhesive**, ROYAL FLEX;**
6. Flooring;
7. Skirting adhesive**, ROYAL FLEX;**
8. Skirting board.

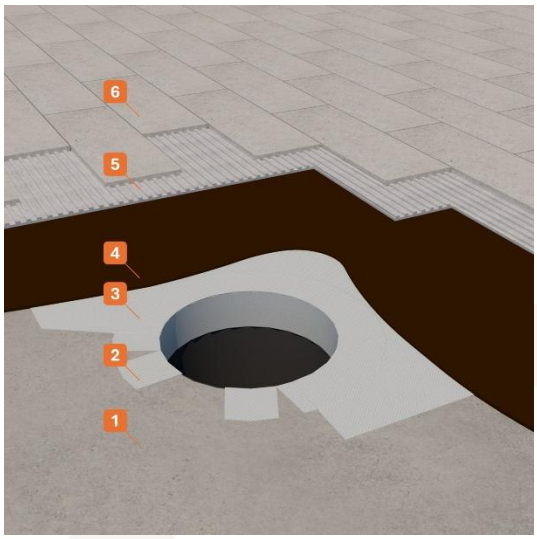
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For corner reinforcement and sealing, it is recommended to apply **BC SEAL BAND**, a self-adhesive band covered with non-woven fabric.

For waterproofing and sealing around roof penetrations – such as drains, ventilation pipes, or plumbing penetrations – use **BC SEAL PAD**, a self-adhesive butyl square pad, in combination with **BC SEAL BAND**.

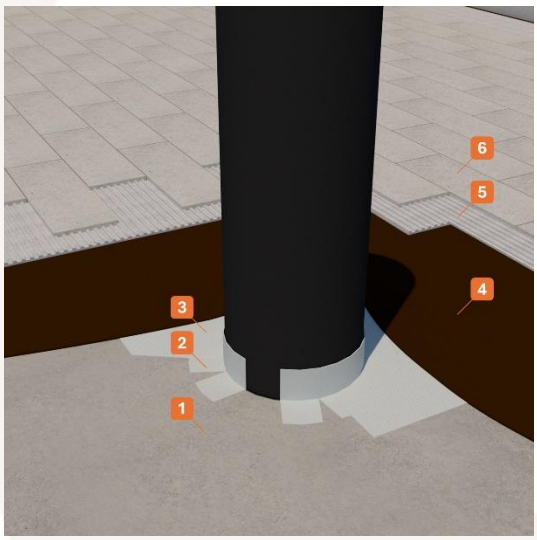
Drain detail treated with BC SEAL BAND and BC SEAL PAD



LEGEND

1. Structural substrate / slope-forming screed;
2. **BC SEAL BAND**, self-adhesive butyl strip applied as a collar;
3. **BC SEAL PAD**, self-adhesive butyl patch;
4. **WINGRIP BITUMINOSO;**
5. Tile adhesive, **ROYAL FLEX;**
6. Flooring.

Vent pipe detail treated with BC SEAL BAND and BC SEAL PAD.



LEGEND

1. Structural substrate / slope-forming screed;
2. **BC SEAL BAND**, self-adhesive butyl strip applied as a collar;
3. **BC SEAL PAD**, self-adhesive butyl patch;
4. **WINGRIP BITUMINOSO;**
5. Tile adhesive, **ROYAL FLEX;**
6. Flooring.

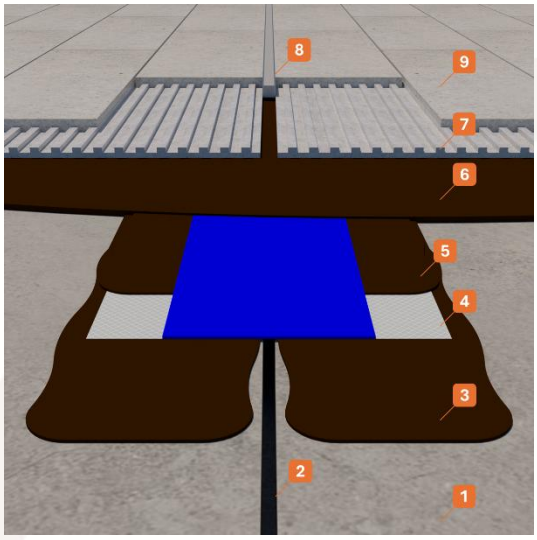
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SURFACES WITH JOINTS

SEALING OF JOINTS UP TO 1 CM WIDE

Joints up to 1 cm width should be sealed using **WINJOINT BAND** joint-covering strips (waterproof elastic strips made of rubber and polyester fabric, suitable for waterproofing joints), as described below.

After creating new joints or restoring existing ones, apply **WINGRIP® BITUMINOSO** along the sides of the joint over a width greater than that of the joint-covering strip.
Lay the joint-covering strip by pressing the perforated side onto the pre-treated area while the **WINGRIP® BITUMINOSO** is still fresh to ensure proper adhesion and waterproofing.
Once dry, apply a second coat of **WINGRIP® BITUMINOSO** to completely cover the joint band.



LEGEND

1. Structural substrate / slope-forming screed;
2. Screed joint;
3. **WINGRIP BITUMINOSO;**
4. **WINJOINT BAND;**
5. **WINGRIP BITUMINOSO;**
6. **WINGRIP BITUMINOSO;**
7. Tile adhesive, **ROYAL FLEX;**
8. Sealant / Preformed joint;
9. Flooring

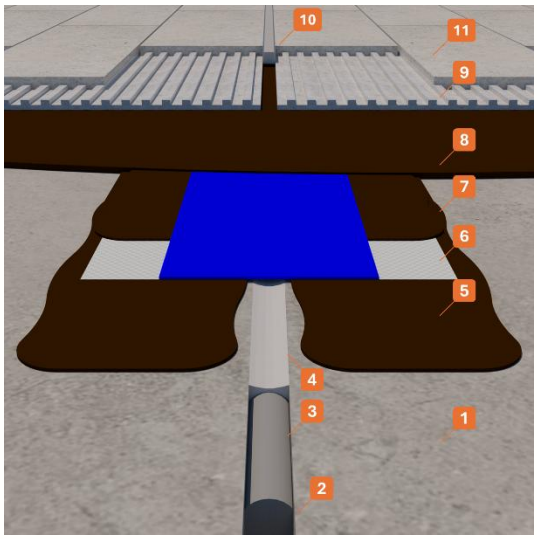
SEALING OF JOINTS WIDER THAN 1 CM

Joints wider than 1 cm should be sealed using a system composed of **WINJOINT FOAM** (compressible joint backing), **WINJOINT SEAL** (polyurethane sealant), and **WINJOINT BAND**, as described below:

After creating new joints or restoring existing ones, insert **WINJOINT FOAM** inside the joint to the desired depth, then extrude **WINJOINT SEAL** along the entire length of the joint.
Once the sealant has dried, apply **WINJOINT BAND** as previously described.

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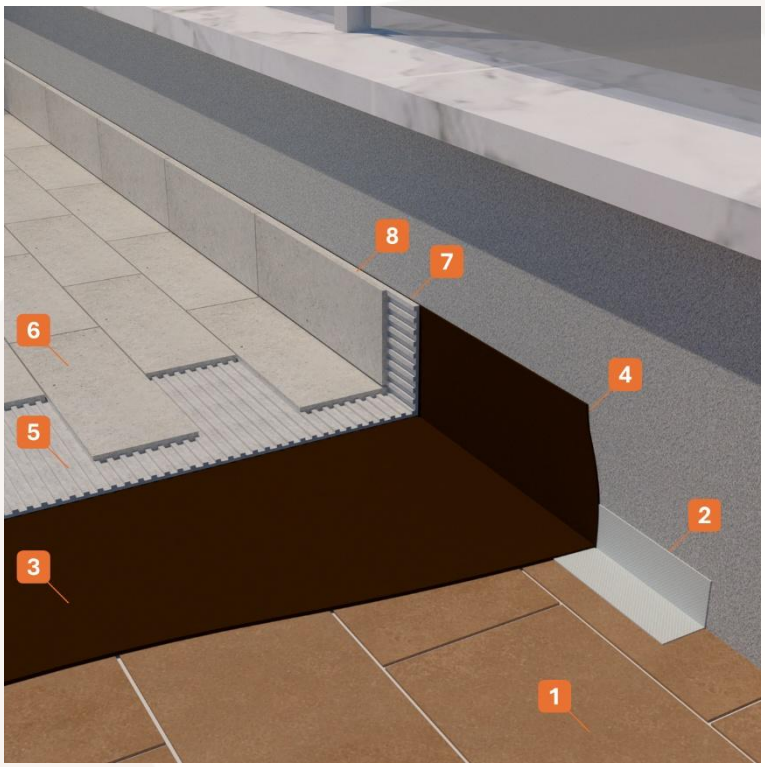
PRODUCT DATA SHEET



LEGEND

1. Structural substrate / slope-forming screed;
2. Screed joint;
3. **WINJOINT FOAM**, backing rod;
4. **WINJOINT SEAL**, sealant;
5. **WINGRIP BITUMINOSO;**
6. **WINJOINT BAND;**
7. **WINGRIP BITUMINOSO;**
8. **WINGRIP BITUMINOSO;**
9. Tile adhesive, **ROYAL FLEX;**
10. Sealant / preformed joint;
11. Flooring

Installation over existing flooring



LEGEND

1. Existing flooring;
2. **BC SEAL BAND,** self-adhesive butyl strip;
3. **WINGRIP BITUMINOSO;**
4. **WINGRIP BITUMINOSO**, vertical upstand;
5. Tile adhesive**, ROYAL FLEX;**
6. Flooring
7. Skirting adhesive**, ROYAL FLEX,**
8. Skirting.

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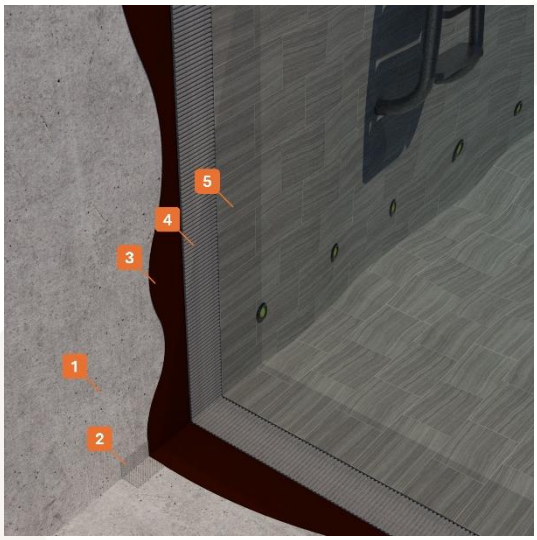
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SWIMMING POOL FINISHING

or swimming pools with a tiled finish, **WINGRIP BITUMINOSO** can be used as the sole waterproofing layer and as the adhesive for the tile covering.
If the pool's concrete structure has already been waterproofed externally and the absence of negative hydrostatic pressure has been verified, the product can be applied directly to the substrate.
If there is moisture caused by negative hydrostatic pressure, before proceeding with the installation of the covering, provide a layer resistant to negative pressure using, alternatively, specific **Winkler** products such as:

- **WINPOX CEMENT TIXO**;
- **WINFIX WET**.

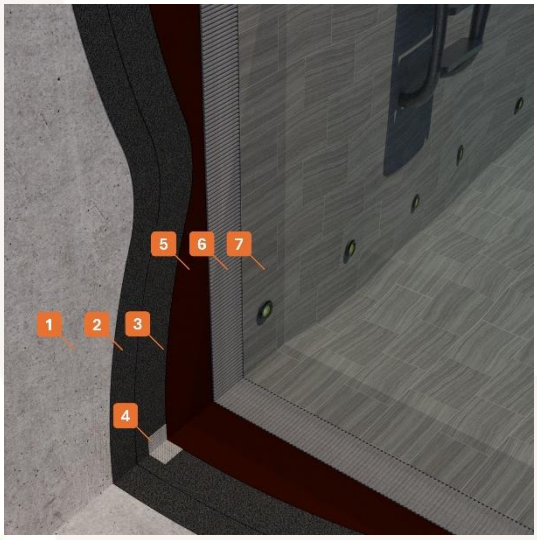
Before applying **WINGRIP BITUMINOSO** over **WINPOX CEMENT TIXO** or **WINFIX WET**, lightly sand the surface.



Application in Swimming Pools Without Negative Hydrostatic Pressure

LEGEND

1. Pool structure;
2. **BC SEAL BAND**, self-adhesive butyl strip;
3. **WINGRIP BITUMINOSO;**
4. Ceramic tile adhesive, **ROYAL SUPER SP**;
5. Tile finish.



Application in Swimming Pools with Negative Hydrostatic Pressure
LEGENDA

1. Pool structure;
2. First coat, **WINPOX CEMENT TIXO**;
3. Second coat, **WINPOX CEMENT TIXO**;
4. **BC SEAL BAND**, self-adhesive butyl strip;
5. **WINGRIP BITUMINOSO;**
6. Ceramic tile adhesive, **ROYAL SUPER SP**;
7. Tile finish.

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CONSUMPTION

Horizontal surfaces:
500 g/m² when applied over existing flooring
1 kg/m² on cement screeds

Vertical surfaces:
400 g/m² when applied over existing wall coverings
800 g/m² on various types of walls

PACKAGING

5-10-20 kg buckets

STORAGE

The product in its original and undamaged packaging, can be stored for up to 12 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).

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TECHNICAL FEATURES
(average value)

FEATURES	STANDARD	RESULTS
Appearance	-	Liquid - creamy
Colour		Brown (turns black when dry)
Brookfield viscosity at +20°C		2.500 cPs
Specific weight at +20°C		1.15 ± 0.05 g/cm^3
pH		10
Solid content		60%
Tensile strength	ASTM D 2370	0.26 N/mm^2
Elongation at break	ASTM D 2370	87%
Water absorption after 7 days of immersion	ASTM D 471	≤ 11%

PRODUCT PERFORMANCE - ACCORDING TO UNI EN 14891
Notified Laboratory No. 0407 -Test Report No. 323166/9011/CPR

FEATURES	TEST CONDITIONS	RESULTS
Crack-bridging capability	+23°C	≥ 1.96 mm
Crack-bridging capability	-5°C	≥ 1.82 mm
Water impermeability	EN 14891	No penetration
Tensile adhesion strength (28 days)	Concrete Ceramic tile	≥ 0.85 N/mm^2 ≥ 1.00 N/mm^2
Tensile adhesion strength after water immersion (28 days)	Concrete Ceramic tile	≥ 1.30 N/mm^2 ≥ 1.05 N/mm^2
Tensile adhesion strength after freeze-thaw cycles (28 days)	Concrete Ceramic tile	≥ 0.80 N/mm^2 ≥ 0.70 N/mm^2
Adhesion to substrate after thermal shock (28 days)	Concrete Ceramic tile	≥ 0.80 N/mm^2 ≥ 0.72 N/mm^2
Adhesion to substrate after contact with lime water (28 days)	Concrete Ceramic tile	≥ 0.86 N/mm^2 ≥ 0.78 N/mm^2

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CE

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.

PRODUCT FOR PROFESSIONAL USE ONLY

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