TYTAN PROFESSIONAL AQUAPROTECT Resin Polyurethane Bitumen

AQUA PROTECT POLYURETAN-BITUMIC RESIN is a ready to use modern product dedicated to roofing membrane flashings and roofing repairs. It takes more than 3 times less time to complete roof flashings in comparison to traditional roofing materials.
The product is dedicated to performing all kinds of roof, attic, flashings, in places difficult to access or joining various construction materials, both on new and renovated surfaces.
Thanks to its properties, it successfully replaces traditional felt flashings, which are the most time-consuming element during roofing installation.

BENEFITS

- sealing mass compatible with roofing materials
- does not require the use of a burner
- easy and quick to apply
- waterproof
- flexible in -36°C
- excellent resistance to changing weather conditions and aging

APPLICATION

- renovation of internal gutters, gutters, skylight walls
- repair of metal coatings
- repair of new bituminous felt roofing and roofing to be renewed
- sealing and covering roof elements such as tile, shingles etc.
- bonding of different surfaces in order to obtain a continuous waterproofing
- execution of expansion joints between materials of different expansion

TECHNICAL DATA

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Uncured - tested at 23°C and 50% relative humidity	Value
Density [g/cm^3]	1,25 - 1,3
Skin formation time [min]	30 - 40
Curing rate [mm/24h]	3,0 - 4,5
Viscosity (Brookfield) [mPas]	4000 - 7000
Dry solids (ISO 3251) [%]	80 - 82
Conditions of application	**Value**
Surface temperature [°C]	5 - 50
Application temperature [°C]	5 - 40
Container temperature [°C]	5 - 25
Cured - tested after 2 weeks at 23°C and 50% relative humidity	**Value**
Volume change (ISO 10563) [%]	30
Module at 100% elongation (ISO 37) [MPa]	0,30 - 0,45
Elongation at break (ISO 37) [%]	500
Hardness (Shore A) (ISO 868)	45
Cured - tested after 2 weeks at 23°C and 50% RH, after conditioning in a 50°C UV chamber	**Value**
Module at 100% elongation after 2 weeks conditioned at the UV chamber (ISO 37) [MPa]	1 - 1,5
Elongation at break after 2 weeks conditioned at the UV chamber (ISO 37) [%]	400
Cured - tested after 2 weeks at 23°C and 50% RH, after conditioning under water for 7 days	**Value**
Module at 100% elongation after 7 days soaking in water (ISO 37) [MPa]	0,5 - 1
Elongation at break after 7 days soaking in water (ISO 37) [%]	400

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Other	Value
Temperature resistance after curing [°C]	-35 - 80
Adhesion to surface	**Value**
Adhesion to galvanized sheet metal [ASTM D903] [N/m]	600
Adhesion to coated sheet [ASTM D903] [N/m]	1100
Adhesion to bitumen sheet [ASTM D903] [N/m]	1700
Adhesion to ceramics [ASTM D903]. [N/m]	2100
Adhesion to concrete - properly seasoned, dry, without loose fractions [ASTM D903]. [N/m]	1800
Adhesion to concrete with water-based primer [ASTM 903]. [N/m]	1600
Adhesion to concrete with PU primer [ASTM D903]. [N/m]	2500

METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

Surface preparation

- The substrate must be dry, clean and degreased.

Product preparation

- Product ready for use.

Application

- Preferred method of application: application by brush, roller or spatula.
- Apply resin to a clean, dry and degreased surface and then sink the fleece.
- The fleece must be clean, dry and properly cut.
- Once the fleece has sunk and soaked through, it should be covered with a second layer of resin.
- The roofing felt can be glued onto the prepared surface.
- Activate hard PVC with acetone, or wipe with sandpaper at the application site.

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- Apply the product in layers, the next layer must be applied before 48 hours. If the time is longer, activate the surface by wiping it vigorously with acetone or xylene and apply another coat of product immediately.

Works after completion of application

- DO NOT WASH HANDS WITH SOLVENTS.
- The uncured compound should be washed off with a hand wash paste.
- After curing, the compound can be removed with a bitumen cleaner, and xylene or possibly petrol can also be used to clean tools.

Remarks / restriction

- Sealing mass do not use on sensitive metal surfaces for example copper ant its alloys because may cause discoloration of surface.
- Sealing mass do not use to polystyrene and foamed polystyrene.
- It is not suitable for direct contact with food and medical uses. Sealant mass was not duly tested and it is not suitable for medical and pharmaceutical applications.
- Do not use indoors or in areas where migration of indoor solvents may occur.

REMARKS / RESTRICTION

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on product hardening conditions (c.a., ambient, surface temperature, quality of used equipment and skills of person applying the product).

TRANSPORT / STORAGE

The product should be transported and stored in dry conditions and in original, undamaged packaging at a temperature of +5°C to +25°C.

Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters.

Protect from direct sunlight.

After opening, close the packaging tightly and use the remaining contents as soon as possible.

The product so stored has a shelf life of 12 months.

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In order to maintain the correct consistency, the mass should be stored and transported in buckets turned upside down.

Detailed information on transport conditions is given in the Safety Data Sheet (SDS).

CATALOGUE DATA

Nominal capacity	Colour	Number of pieces per collective package	Catalogue Number	Index	EAN Code
5 kg	black	n/d	WAT-WBSRPBN1-TP-48-kg-5-004	10041057	5902120168910

SAFETY AND HEALTH PRECAUTIONS

For detailed information find Material Safety Data Sheet available at producer upon request.

All written or oral information, recommendations and instructions are given according to our best knowledge, tests and experience, in good faith and in compliance with manufacturer's principles. Each user of this material will make sure in every possible way, including verification of the final product in proper conditions, about suitability of the supplied materials for their intended purposes. The manufacturer is not liable for any losses incurred due to inaccurate or erroneous application of the manufacturer's materials.

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