



Waterproofing SWAN MONOPAL

Technical Data Sheet

Reviewed: 06.06.2015



DESCRIPTION

SWAN MONOPAL is a one component, high performance liquid-applied, pure acrylic, waterproofing material with excellent resistance to weather conditions. It is suitable for waterproofing old and new building surfaces. Forms an elastic seamless vapor permeable membrane without joints with excellent resistance to humidity as well as high temperatures and UV rays.

ADVANTAGES

- Elastic, seamless, vapor permeable and reflective membrane without joints
- Excellent elasticity
- Superior adhesion on most building surfaces
- Excellent water/humidity resistance
- Excellent resistance to ageing and UV rays
- User and environmentally friendly - waterbased
- Easy to apply (one component – ready to use material)

APPLICATIONS

- Waterproofing of rooftops and terraces
- Waterproofing of gutters, domes, cornices, undulated panels etc
- Waterproofing bitumen and polyurethane hard foam surfaces
- Suitable for concrete surfaces, bitumen material, wood, stone, brickwork, PVC, polyurethane foam, plaster, metal etc

INSTRUCTIONS FOR USE

Substrate preparation

Careful surface preparation is very important for optimum finish and durability.

- The surface needs to be clean, dry, sound and free of any contamination that may harmfully affect the adhesion of the membrane.
- Maximum substrate moisture content should not exceed 5%.
- New concrete structures need to dry for at least 28 days.
- Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by mechanical means such as a sanding machine. Possible surface irregularities need to be smoothed.

Repair of cracks

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

1. Clean cracks and hairline cracks, from dust, residues or other contamination.
2. Cracks and joints larger than 2 – 3mm must be primed locally with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA and allow drying. Fill all prepared cracks with elastomeric acrylic filler FLEX.
3. Bigger cracks and expansion joints must be primed locally with polyurethane primer PRIMER PU 900 and filled with polyurethane sealant BOND FLEX.
4. Small cracks up to 2 – 3mm must be primed locally with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA and allow drying. Apply locally one coat of **SWAN MONOPAL** and on the wet coat dip a fibre net (30gr/m²) or fibre tape (60gr/m²) 4 - 10cm wide and recoat with **SWAN MONOPAL**.

Priming

1. Prime absorbent surfaces like concrete, cement screed, wood with solvent based primer ISOCRYL PRIMER DUR, or waterbased primer ISOCRYL PRIMER DUR AQUA. Allow drying for 2 – 4 hours.
2. Prime non-porous or difficult surfaces (metal, ceramic tiles, plastics) with ADHESIL PRIMER.

Application

1. Apply **SWAN MONOPAL** on the primed surface diluted 10% - 20% with clean water, using a brush, roller or spray gun. Allow drying for 12 – 14 hours
2. Apply a second layer crossways to the first layer, diluted up to max 5%.
3. For extra protection or where required a third layer may be applied.
4. Surfaces can be walked on at least after 24 – 48 hours. New treated surfaces exhibit a tackiness at the beginning, which disappears in due time.
5. For best results, the temperature during application and cure should be between 8°C and 35°C. Application must be avoided when rain or frost is expected. Make sure that the surface temperature is between 5°C and 35°C as direct sun exposure can increase this to more than 50°C.

CLEANING

Clean all tools and equipment with water and soap right after applications. Cured material can be removed only by mechanical means.

COVERAGE

1 - 2 m²/Lt for 2 layers

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TECHNICAL CHARACTERISTICS

Base: Acrylic emulsion
Form: Visous liquid
Colour: White & Ceramic Red
Smell: Characteristic of acrylic emulsion
Density: 1,4 ± 0,02 gr/ml ASTM D-1475
PH: 8-9
Solid content: 60%
Water Vapor Permeability: >19 gr/m²/day ISO 9932:91
Resistance to stagnant water after 7 days: No difference ASTM D-870
Bending Test (F 2 mm): No cracks ASTM D-522
Elongation at Break: >360% ASTM D-412
Tensile Strength: 1,3N/ mm² ASTM D 412
Resistance to Water Pressure: No Leak (1m water column, 24h) DIN EN 1928
Adhesion to concrete: >1,5 N/mm² (concrete surface failure) ASTM D 903
Hardness (Shore A Scale): 42 ASTM D 2240 (15")
Uniformity after 72h at 23 °C: No water separation or settlement after moderate stirring ASTM D-2824
Consistency: Good application by spray, roller or brush
Application temperature: 5°C έως 35°C
Light Pedestrian Traffic Time: 18 hours, 20°C, 50% RH
Final Curing time: 7 days, : 20°C, 50% RH
VOC (Volatile Organic Compounds) CONTENT: (Directive 2004/42/CE) EU maximum VOC content limit values for this product (category A/c(WB): "Exterior walls of mineral substrate"): 40 gr/lit (2010). This product contains maximum 28 gr/lit VOCs (ready for use product).

STORAGE

Store in dry and cool storage conditions at temperatures 5°C - 30°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 12 months in unopened containers. Products should remain in their original unopened containers, bearing the manufacturers batch number.

PACKAGING

White 3.8Lt, 10Lt

PACKAGING	CODE	BARCODE
White		
3.8Lt	60801	5204094031253
10Lt	60802	5204094031369

HEALTH AND SAFETY INFORMATION

P101: If medical advice is needed, have product container or label at hand **P102:** Keep out of reach of children **P103:** Read label before use **P501:** Dispose of the contents/containers in accordance with the current legislation on waste treatment **EUH208:** Contains Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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