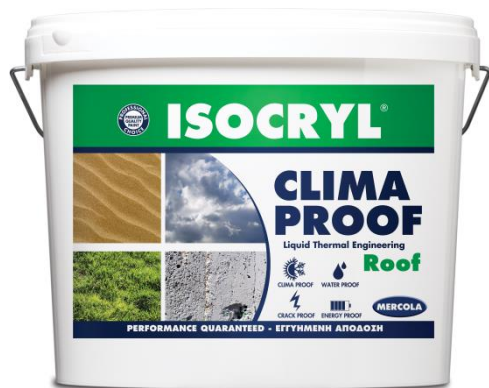




Waterproofing ISOCRYL CLIMA PROOF ROOF

Technical Data Sheet

Reviewed: 01.02.2016



DESCRIPTION

ISOCRYL CLIMA PROOF Roof is premium quality acrylic total protection insulation material based on 100% acrylic resin and micro- sphere technology additives that produce excellent results in thermal insulation and overall building protection, suitable for exterior use. It offers protection from adverse weather conditions and specifically in extreme temperature differences, direct sunlight, rain and atmospheric pollution. It has superior reflectivity and a high resistance to ageing. Its micro- cell structure creates a very high resistant heat transfer barrier providing a true heat conservation mechanism, many times its thickness.

ADVANTAGES

- Energy efficient
- Very low conductivity
- High content of lightweight glass beads and micro- sphere technology additives
- Outstanding gap filling and crack resistance
- Offers excellent protection from adverse weather conditions
- High reflectivity
- High resistance to ageing
- Great surface adhesion
- Easy application
- Protects surfaces from carbonization and chalking

APPLICATIONS

- Waterproofing of rooftops, terraces, walls
- Waterproofing bitumen and polyurethane hard foam surfaces (with special primer)
- Suitable for concrete surfaces, bitumen material, wood, stone, brickwork, PVC, polyurethane foam, plaster, plasterboard, 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.
- 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 or chemical means such as a sanding machine. Possible surface irregularities need to be smoothened.

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 BONDFLEX.
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 **ISOCRYL CLIMA PROOF Roof** and on the wet coat dip a non-woven polyester cloth (30gr/m²) or fibre tape (60gr/m²) 4 - 10cm wide and recoat with **ISOCRYL CLIMA PROOF Roof**.

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. Stir product well before use.
2. Pour the **ISOCRYL CLIMA PROOF Roof** diluted 10 – 15% with clean water onto the primed surface and spread it using a roller or brush, until all surface is covered. You can use airless spray allowing a considerable saving on labour cost. Allow drying for 6 – 18 hours
3. Apply a second layer of **ISOCRYL CLIMA PROOF Roof** crossways to the first layer, diluted up to max 5%.
4. In order to obtain maximum performance application of a third coat is advisable.
5. Surfaces can be walked on at least after 48 hours. New treated surfaces exhibit a tackiness at the beginning, which disappears in time.
6. For best results apply a final coat of polyurethane waterbased varnish TOP COAT AQUA.
7. Application of **ISOCRYL CLIMA PROOF Roof** must be avoided at temperatures below 8°C and above 35°C and when frost or rain is expected.

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RECOMMENDATION: We recommend reinforcement of the entire surface with non-woven polyester cloth. Use 5-10cm stripe overlapping. If **ISOCRYL CLIMA PROOF Roof** is applied without non-woven polyester cloth reinforcement we recommend a three-layer application.

ATTENTION: Do not apply **ISOCRYL CLIMA PROOF Roof** over 0.5 mm thickness (dry film) per layer. For best results, the temperature during application and curing should be between 5°C and 35°C. Low temperatures delay curing while high temperatures speed up curing. High humidity may affect the final finish.

CLEANING

Remove as much paint as possible from brushes and rollers before cleaning. Clean all equipment immediately after use with soapy water.

COVERAGE

1 - 3 m²/Lt on smooth surfaces for 2 coats

TECHNICAL CHARACTERISTICS

Base: Acrylic insulation material based on 100% pure acrylic resin, lightweight glass beads and micro- sphere technology additives

Form: Visous liquid

Colour: White

Smell: Characteristic

Specific gravity: 0,63 ± 0,05 gr/ml ASTM D-1475

Viscosity: 20000 ± 5 mpas 23 °C

Thermal conductivity (W/mK): 0,1693

Thermal Diffusion (mm²/s): 0,3910

Specific heat capacity (MJ/m³K): 0,4330

Method of application: Roller, brush, spay

Application temperature: 10°C - 35°C

Thinning: 0 - 10% with clean water

Drying times: normally touch dry after 1- 2 hours, recoat after 8 hours.

Additional time is required under damp / cold conditions

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 28gr/lit VOCs (ready for use product).

STORAGE

Store in dry and cool storage conditions at temperatures 5°C - 35°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 18 months in unopened containers. Products should remain in their original unopened containers, bearing the manufacturers batch number.

PACKAGING

White: 3Lt, 10Lt

PACKAGING	CODE	BARCODE
White		
3 Lt	5172	5204094051725
10 Lt	5173	5204094051732

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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