

EnerSAV

ELASTIC ACRYLIC WATERPROOFING WHITE, HEAT REFLECTIVE

PRODUCT DESCRIPTION

EnerSAV is a next-generation elastic acrylic waterproofing coating developed specifically for exposed roof systems, with outstanding solar reflectance and thermal emittance that substantially reduce heat build-up on the building surface. The product forms a continuous, seamless and highly elastic waterproofing membrane that remains stable over a wide temperature range; it does not soften and become tacky at high temperature, and retains its whiteness and energy-saving performance over time. EnerSAV resists UV radiation and weathering and limits dirt pick-up; its vapour-permeable membrane structure allows the surface to breathe, reducing the risk of blistering caused by trapped moisture. Supplied as a one-component, water-based and environmentally friendly product, it is easily applied by roller, brush or spray and is suitable for both new construction and refurbishment.

CLASSIFICATION · CERTIFICATION
EN 14891 DMP
EN 1504-2 (C) PI-MC-PR



ILLUSTRATIVE IMAGE Applying EnerSAV for combined waterproofing and heat reflection on a roof



ILLUSTRATIVE IMAGE Concrete roof coated white with EnerSAV, reducing solar absorption



ILLUSTRATIVE IMAGE Roof edges, gutters and penthouse bases coated without a break

USES

- Waterproofing and heat reduction for concrete roofs and cement-rendered walls
- Protects and reduces heat gain on metal roofs (profiled sheet, steel)
- Overcoats existing waterproofing systems (bituminous, acrylic, PU) that remain well bonded, for effective refurbishment and upgrade
- For exposed roof areas subject to UV radiation and severe weather
- Suitable for areas around and beneath solar photovoltaic arrays, improving yield by lowering the surface temperature
- Residential and industrial buildings requiring energy savings and reduced heat absorption
- Waterproofing of basement walls, balconies, planters, precast concrete elements and wall panels
- Protects concrete in marine environments and environments containing aggressive ions (chloride, sulphate)

SUITABLE SUBSTRATES

- Pitched concrete roofs
- Metal roofs (profiled sheet, steel, aluminium, galvanised steel)
- Existing waterproofing systems (bituminous, acrylic, PU) that remain well bonded
- PU insulation boards, roof panels and polycarbonate sheets

TECHNICAL DATA

Property	Standard	Result
Density	ASTM D1475-13(2020)	1.35 ± 0.05g/cm³
Elongation at break after 28 days	ASTM D412-16(2021)	300% ± 30%
Maximum tensile strength		≥ 2.5MPa
Adhesion strength to concrete	ASTM D7234-21	≥ 1.8MPa
Adhesion strength after heat aging		≥ 2.5MPa
Shore A hardness	ASTM D2240-15	≥ 70
Liquid water permeability	EN 1062-3:2008	< 0.1kg/m²·h$^{0.5}$
Crack bridging ability (at a coverage rate of ≥ 2.0kg/m²)	BS EN 14891:2017	≥ 5.0mm
Solar reflectance – ρ	ASTM E903-20	≥ 82%
Thermal emittance – ε	BS EN 15976:2011	≥ 0.83
Solar Reflectance Index (SRI)	ASTM E1980-24	≥ 100

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions

QUICK SPECIFICATIONS

PACKAGING	05kg/pail and 20kg/pail
COLOUR	White
SHELF LIFE	24 months (unopened container)
COVERAGE	0.3 - 0.6kg/m²: previously painted surfaces and new walls 1.5 - 3.0kg/m²: metal and concrete roofs
WAITING TIME BETWEEN COATS	20 - 45 minutes (or longer depending on site conditions; touch dry)
WAITING TIME BEFORE WATER TESTING	3 - 7 days (depending on project requirements)
FULL CURE	~5 - 7 days

SAFETY INFORMATION

- **Skin and eyes:** the product is alkaline and, in contact with perspiration or body fluids, may cause skin irritation or an allergic reaction in sensitive individuals; it may cause serious eye damage on direct contact
- **Eye contact:** rinse immediately under gently running clean water for 10 - 15 minutes without rubbing; if stinging persists, go to the nearest medical facility
- **Protective equipment:** Gloves · Safety goggles and dust mask (when mixing the product or dry-grinding the substrate) · Protective clothing
- **Working environment:** work in a well-ventilated area; avoid confined spaces, children and pets; avoid inhaling dust when preparing the substrate by dry grinding
- **Surplus material:** reseal the container after use for best storage; do not discharge into drains — allow to dry and dispose of as construction waste
- Refer to the latest **Safety Data Sheet (SDS)** on the official BUMATECH website, or contact the technical department

PRECAUTIONS & DISCLAIMER

- DO NOT use over movement joints, structural cracks or locations with differential vertical displacement; DO NOT use over cracks wider than 1.0mm
- DO NOT apply at more than 0.5kg/m² per coat; DO NOT apply when the substrate moisture content exceeds 6% or the surface temperature is below dew point + 3°C
- DO NOT use in locations subject to negative hydrostatic pressure or high rates of moisture vapour transmission; DO NOT apply directly to lightweight concrete (AAC panels, AAC blocks and similar)
- The figures in this document were established by laboratory testing under standard conditions; actual values vary with temperature, humidity, accompanying materials, application method and workmanship. The user is responsible for verifying suitability for the intended use
- BUMATECH accepts no liability for loss arising from misuse, application contrary to these instructions, or combination with incompatible materials not confirmed in writing, and reserves the right to update technical information without prior notice. Check the latest TDS version on the website before every project

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