QUICK ANSWERS

The 6 questions applicators ask most

How is it different from SolarSHIELD?

SolarSHIELD prioritises **maximum heat reflection** (reflectance ≥ 88%, SRI ≥ 112) for large factory metal roofs. EnerSAV prioritises **waterproofing cracked and refurbished roofs**: crack bridging ≥ 10mm and adhesion ≥ 1.8MPa, while still reaching SRI ≥ 100.

Can it go over an old waterproofing layer?

Yes — bituminous, acrylic or PU systems **that remain well bonded**. This is its main strength: refurbish an old roof without stripping the old layer.

What primer should I use?

PRIMER F in step 5 — improves bond between substrate and membrane. Never skip priming on new concrete or highly absorbent substrates.

Does the membrane breathe?

Yes — its **vapour-permeable** membrane structure lets the surface release moisture, reducing blistering from trapped vapour. Liquid water permeability stays < 0.1kg/m²·h$^{0.5}$ to EN 1062-3:2008.

Can it be used under solar panels?

Yes. The TDS states it is suitable for areas **around and beneath solar photovoltaic arrays** — a lower surface temperature improves panel yield.

How many coats, and how long to cure?

At least **2 coats**, each coat **at right angles** to the previous one, and the **full coverage**: **0.3 - 0.6kg/m²** painted surfaces, new walls; **1.5 - 3.0kg/m²** metal and concrete roofs. Wait 20 - 45 minutes between coats; full cure takes about **5 - 7 days**.

More questions? **Scan the Zalo OA code on the back cover** — a BUMATECH engineer will assist you directly during working hours.

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HEAT REFLECTIVE · SRI ≥ 100
Solar reflectance ≥ 82% (ASTM E903-20), thermal emittance ≥ 0.83 (BS EN 15976:2011) — lowers roof surface temperature.

TEST STANDARDS
BS EN 14891:2017 · EN 1062-3:2008 · ASTM D7234-21
ASTM D412-16(2021) · ASTM E903-20 · ASTM E1980-24

BUMA-WP · WATERPROOFING

HEAT-REFLECTIVE ROOF WATERPROOFING

EnerSAV

One-component white acrylic coating for exposed roofs — crack bridging up to 10mm, adhesion ≥ 1.8MPa, applies over well-bonded existing waterproofing.

CRACK BRIDGING ≥ 10mm

ADHESION ≥ 1.8

SRI ≥ 100

SOLAR REFLECTANCE
≥ 82%
ρ · ASTM E903-20



≥ 10.0
mm crack bridging ability (BS EN 14891:2017)

BUILD BETTER
LIVE GREENER

01 WHY EnerSAV?

Old roofs are both cracked and hot. Stripping the old waterproofing to start again is costly and takes the building out of use. **EnerSAV goes straight over a well-bonded old system**, bridges cracks ≥ 10mm, bonds at ≥ 1.8MPa and reflects solar radiation to cool the surface.

CRACK BRIDGING ≥ 10mm

Tested to BS EN 14891:2017 — substrate cracks wider than 1.0mm must be filled before coating

ADHESION ≥ 1.8MPa

Applies over existing bituminous, acrylic or PU waterproofing that remains well bonded

SRI ≥ 100 · BREATHABLE

Reflects solar radiation to cool the surface; vapour-permeable film lets the roof release moisture, reducing blistering

02 STANDARDS & TECHNICAL PROPERTIES

BS EN 14891:2017 · EN 1062-3:2008 · ASTM D7234-21 · ASTM E1980-24

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	ASTM D412-16(2021)	≥ 2.5MPa
Adhesion strength to concrete	ASTM D7234-21	≥ 1.8MPa
Adhesion strength after heat aging	ASTM D7234-21	≥ 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	BS EN 14891:2017	≥ 10.0mm
Solar reflectance ρ	ASTM E903-20	≥ 82%
Thermal emittance ε	BS EN 15976:2011	≥ 0.83
Solar Reflectance Index (SRI)	ASTM E1980-24	≥ 100

*Data per TDS **EnerSAV** v2026.10 — laboratory test results.*

03 TECHNICAL DATA

≥ 10 mm crack bridging	≥ 1.8 MPa adhesion	300% elongation at break
≥ 100 SRI index	≥ 70 Shore A hardness	5 - 7 days full cure

Packed in 05kg and 20kg pails · white · density 1.35 ± 0.05g/cm³. Coverage 0.3 - 0.6kg/m² on new walls and previously painted surfaces; 1.5 - 3.0kg/m² on metal and concrete roofs. Do not apply more than 0.5kg/m² per coat.

04 SCOPE OF USE

- ✓ Pitched concrete roofs; metal roofs — profiled sheet, steel, aluminium, galvanised steel
- ✓ Roof refurbishment over well-bonded bituminous, acrylic or PU systems
- ✓ Areas around and beneath solar photovoltaic arrays
- ✓ PU insulation boards, roof panels and polycarbonate sheets





COMPLETE SYSTEM: Prime with **PRIMER F** in step 5 for bond, then apply **EnerSAV** in at least two coats at right angles; reinforce with **BuMaTAPE** and **BuMaMESH 70**.

05 APPLICATION IN 10 STEPS



1 Check substrate and moisture



2 Clean and roughen



3 Fill cracks with repair mortar



4 Pipe collars, cove corners



5 Roll PRIMER F primer



6 Stir the product



7 Coat 1, embed BuMaTAPE



8 Lay BuMaMESH 70 mesh



9 Next coat at right angles



10 Cure and check

Key reminders: Max 0.5kg/m² per coat · Do not apply when substrate moisture > 6% or surface below dew point + 3°C · Treat cracks > 1.0mm before coating