

Chemically  
compatible  
with all types of  
membranes

## Regupol® resist solar AK

### Protective Layer underneath Solar Systems

With this product, **Regupol® resist solar AK** offers a selection of protective layers that has been specifically developed for the installation of photovoltaic systems on flat roofs. The protective layers are marked by their extremely long product life as well as their high mechanical load-bearing capacity. A large selection of product alternatives allows users to find the fitting protective layer for the different types of flat roofs and solar plants.

**Regupol® resist solar AK** ensures that solar systems are solidly positioned due to high coefficients of friction while at the same time protecting the roof membrane against damage.

**Regupol® resist solar AK** is available in standard sizes or is “custom cut” to the individual construction.

Protected by German utility model (issued by the German Patent and Trade Mark Office).

**Regupol® resist solar AK** is available in different varieties:

#### Lamination with a triplex aluminium foil on the underside

This prevents plasticiser migration between non-rubber-compatible roof membranes (e.g. soft PVC) and the protective layer.

#### Flame-retardant finish

This alternative is considered “hard roofing” as it protects the roof against flying sparks, radiant heat and fireworks.

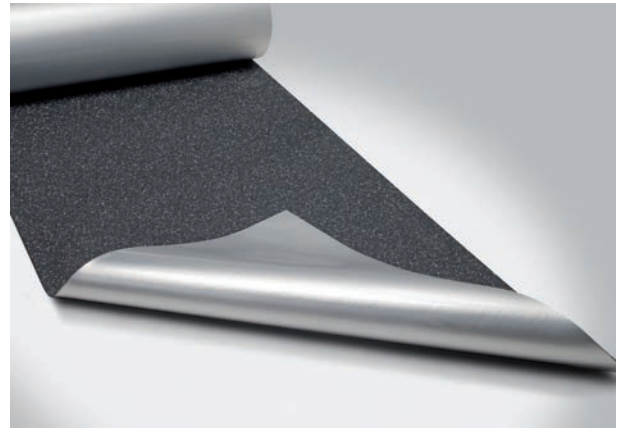
#### Self-adhesive finish

An adhesive layer serves as a mounting aid to secure the protective layer at the footprints and attach **Regupol® resist solar** to the solar system even prior to its installation on the roof.

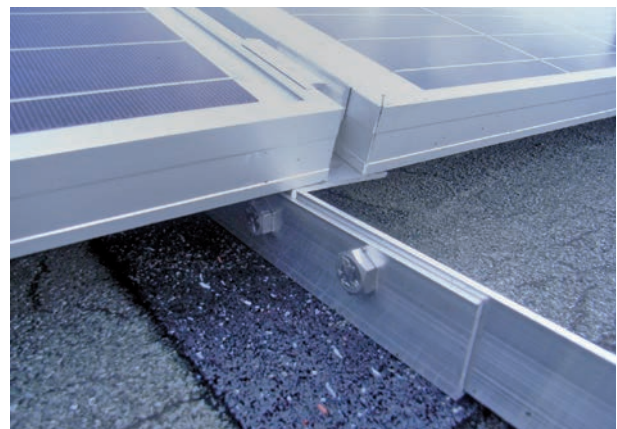
These finishes may be combined with one another, which makes for a broad range of product varieties.

#### Areas of Application

On roof membranes of flat roofs underneath solar systems and other installations.



**Regupol® resist solar AK** with aluminium triplex foil on the underside, to prevent plasticiser migration.



BSW is member of the German Solar Industry Association

## Regupol® resist solar AK – Technical Details

### Material

Prefabricated PUR-bound rubber granulate with optional fire protection finish and underside lined with triplex aluminium foil.

### Tile Measurements

10,000 x 1,250 x 6 mm

8,000 x 1,250 x 8 mm

6,000 x 1,250 x 10 mm

6 rolls per euro pallet

Customized goods in different lengths, thicknesses (possible thicknesses up to 20 mm) and widths beginning from 50 mm are available on request.

### Weight per unit

approx. 4.5 kg/m<sup>2</sup>, at 6 mm thickness

### Low-Temperature Stability

to -40 °C

### Thermostability

to +90 °C

### Tensile Strength

under tensile load  $\sigma_R = 1.50 \text{ N/mm}^2$ , in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 50 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.70 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Electromagnetic Shield at 1 GHz

max. approx. 35 dB

### Migration of Plasticisers

Does not occur due to aluminium lining on underside.

### Dynamic coefficient of friction (cohesive and dynamic friction)

Can be tested on our own test bench under laboratory conditions upon request (using the individual system weights / frame constructions).

### Reaction to Fire Classification

E in line with EN 13501-1:2007

### Protective layer

according to the norm DIN 18195, part 10

## Regupol® Growth-Inhibiting Mats

For decades, **Regupol® Growth-Inhibiting Mats** have been an established product for avoiding unwanted vegetation. Their use bypasses the unpopular use of herbicides, permanently prevents unwanted growth and makes frequent mowing unnecessary.

More information can be found at our website  
[www.berleburger.com](http://www.berleburger.com)



## Regupol® resist solar – Product Varieties

Regupol®	Aluminium lamination	Flame-retardant finish	Self-adhesive lamination of the top side
	To avoid the migration of plasticisers	To protect against flying sparks, radiant heat and fireworks	To secure the protective layer at the solar systems
resist solar AK <sup>1, 4</sup>	Yes	—	—
resist solar FH AK <sup>1, 2, 4, 5</sup>	Yes	Yes	—
resist solar AK SK <sup>1, 4</sup>	Yes	—	Yes
resist solar FH AK SK <sup>1, 2, 4</sup>	Yes	Yes	Yes
Also suitable for the protection of flat roof installations <sup>3</sup>			
resist <sup>3</sup>	—	—	—
resist FH <sup>2, 3, 5</sup>	—	Yes	—
resist SK <sup>3</sup>	—	—	Yes
resist FH SK <sup>2, 3</sup>	—	Yes	Yes
Roofing and Pavement Tiles <sup>2, 5</sup>	—	Yes	—
walkway AK <sup>1, 2</sup>	Yes	Yes	—

<sup>1</sup> Chemically compatible with all types of membranes.

<sup>2</sup> Flame-resistant: classification B<sub>Roof</sub> (t1) according to DIN EN 13501-5 after DIN V ENV 1187 test.

<sup>3</sup> These four **Regupol®** building protection sheets are generally used for the protection of rubber-compatible roof membranes. They are also suitable underneath solar systems and other types of structures.

<sup>4</sup> Protected by German utility model (issued by the German Patent and Trade Mark Office).

<sup>5</sup> With general appraisal certificate.