

Regupol®



# Insulation and Building Protection

Roof membrane protection on flat roofs or under solar panel racks





## Protection against Mechanical Damage

BSW is one of the market leaders with its range of insulation and building protection products. Alongside its top-selling product, **Regupol® resist**, BSW has developed other special products that fulfil, due to their particular properties, specific applications and requirements. Low cost and easy installation offer clear advantages compared to protective screed, protection concrete and facing brickwork. Structural defects, such as caused by damaged membranes and insulations, can be avoided, reliably and durably. **Regupol®** Insulation and Building Protection have been providing reliable service for decades. Furthermore, the **Regupol®** brand material possesses an excellent reputation among experts.



Made in  
Germany

- highest quality
- fair payment
- secure jobs
- high environmental standards

### The Benefits

#### Elasticity

The material adapts to all unevenness in surfaces, thereby doing away with complicated cuts.

#### Corrosion Resistance

**Regupol®** Insulation and Building Protection does not become electrostatically charged, and chemical reactions between metals are prevented.

#### Resistance to Corrosive Agents

**Regupol®** is almost completely resistant to contaminated water and other influences in the soil and air.

#### Resistance to Chemicals

**Regupol®** is highly resistant to acids and alkalis.

#### Microbe Resistance

Resistant to termites, fungal attack, insects and microbes.

#### Vapour Diffusionable

Does not form a vapour barrier on the incorrect side.

#### Anti-Ageing

**Regupol®** Insulation and Building Protection does not rot, maintains permanent elasticity and all remaining properties for an almost unlimited period of time.

#### No Influence on Plant Growth

When installed underneath roof plantings, **Regupol®** Insulation and Building Protection does not influence on plant growth.

#### No Sintering Out

**Regupol®** does not sinter out, as for example, protective layers of concrete or screed.

## Application Areas

### Regupol® resist

#### Flat Roofs

under gravel, flower pots, slab paving, roof plantings, etc.

#### Terraces and Balconies

under concrete slabs, (wooden) tiles, etc.

#### Parking Decks

under concrete or bituminous surfacing

#### Inverted Roofs

under gravel, slab paving, raised floors, etc.

#### Building Construction and Civil Engineering

for concrete construction, bridge construction, covered parking decks, underground car parks, head race tunnels, tunnel constructions, avalanche galleries, bunkers, hangars, ammunition dumps

#### Pipeline Construction

for covering of dome-shaped cuts and pipelines made of concrete, metal or synthetic material

#### Modular Houses and Construction of Pre-assembled Units

for partition walls, soundproofing sandwich elements and doors (soundproofing)

#### Air Duct Construction

as soundproofing material for the outer lining of ducts made of steel metal, asbestos cement, synthetics, etc.

#### Membrane

for protection of bituminous waterproof sheeting, synthetic sheeting

#### Insulating Materials

to protect insulation materials such as polystyrene, polyurethane, glass and mineral fibres, etc.

### Regupol® resist solar AK

On roof membranes on flat roofs under solar systems and other installations. No plasticiser migration also when used on PVC membranes.

### Regupol® drain plus

Beneath roof plantings and terrace slabs

### Regupol® resist FH

On the membranes of flat roofs underneath gravel filling, tile material, etc., underneath solar modules and as hard roofing.

### Regupol® resist 9510

On roof membranes on high-load building membranes, flat roofs, under terrace floors, etc.

### Regupol® hot plus

**hot plus** can be optimally bonded to membranes such as Wolfin, EPDM, PVC, slated bituminous waterproof sheeting (adhesiveness to be tested in advance).

### Regupol® stabi plus

**stabi plus** is used for intermediate protection purposes. It can also be used as a separating layer on membranes. The excellent tensile strength allows also vertical installation, for example in civil engineering.

### Regupol® Roofing and Pavement Tiles

Maintenance paths on flat roofs with and without load, base panels for solar systems, antennas, building engineering equipment, etc.

### Regupol® walkway AK

Maintenance paths on flat roofs with and without load, base panels for solar systems, antennas, building engineering equipment, etc. No plasticiser migration also when used on PVC membranes.

## Regupol® resist

**Regupol® resist** is the most versatile product to protect membranes and insulations. It is made of PUR-bonded rubber fibres and granules. **Regupol® resist** is classified as a protective layer in accordance with DIN 18195, part 10. In comparison to protective screed and concrete, **Regupol® resist** possesses clear technical, physical and financial advantages. It is easy to install and can be optimally bonded to any kind of sub-bases by means of hot bitumen, special adhesives and plastic adhesives.



### Material

PUR-bonded rubber fibres and granules

### Weight per unit

approx. 6 kg/m<sup>2</sup> at 8 mm thickness

### Dimensions

#### Plates Measurements

2,300 x 1,150 x 6 mm

2,300 x 1,150 x 8 mm

2,300 x 1,150 x 10 mm

2,300 x 1,150 x 12 mm

2,300 x 1,150 x 15 mm

2,300 x 1,150 x 20 mm

Other sizes and thicknesses on request.

#### 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

Customized goods in different lengths, thicknesses and widths beginning from 50 mm are available on request.

### Low-Temperature Stability

to -40 °C

### Thermostability

to +120 °C

When installing under bituminous base course/hot bitumen, please keep the linear thermal expansion coefficient in mind (for further information please feel free to contact BSW).

### Tensile Strength

under tensile load  $\sigma_R = 0.50 \text{ N/mm}^2$ , in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 45 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.55 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Thermal Conductivity

calculation value  $\lambda_2 = 0.14 \text{ W/mK}$

### Reaction to Fire Classification

E in line with EN 13501-1

### Coefficient of Thermal Expansion

approx.  $23.1 \times 10^{-5} / ^\circ\text{C}$

### Resistance to water vapour diffusion factor $\mu$

21.6

(Water vapour diffusion equivalent air layer thickness  $s_d$ : 0.21 m)

### Migration of Plasticisers

Installation on membranes which are not rubber-compatible may cause migration of plasticisers. Please use **Regupol® resist solar AK** to avoid migration of plasticisers.

### Protective layer

according to the norm DIN 18195, part 10

The stated values are to be understood as guidelines. The depicted applications (photos) are examples only. Our information does not release users from the obligation of carrying out their own tests for possible uses.



## 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.

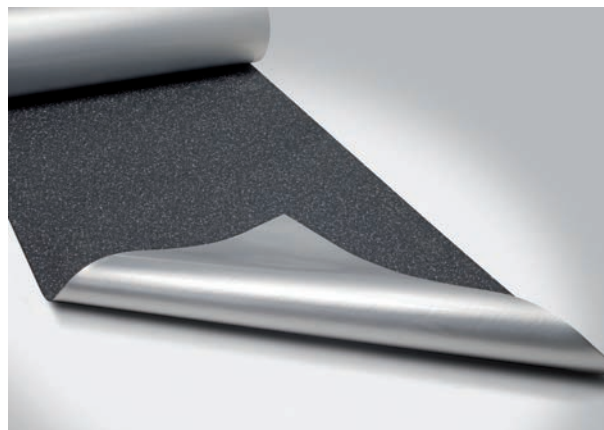
#### Self-adhesive finish

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.



## Regupol® drain plus

**Regupol® drain plus** provides both a protection and drainage layer. The top side of **Regupol® drain plus** is laminated with a fibre fabric which allows only liquids to seep through. The profiled underside makes sure that liquids can drain off.

**Regupol® drain plus** possesses high mechanical load capacity, does not corrode and is spade-resistant.



### Material

PUR-bonded rubber granules and fibres (rough);  
fleece lamination

### Weight per unit

approx. 7.5 kg/m<sup>2</sup>

### Roll dimension

10,000 x 1,250 x 8/12 mm  
4 rolls per euro pallet

### Low-Temperature Stability

to -40 °C

### Thermostability

to +90 °C

### Tensile Strength

under tensile load  $\sigma_R = 0.83 \text{ N/mm}^2$ , in accordance with  
DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 40 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.40 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Reaction to Fire Classification

E in line with EN 13501-1

### Protective layer

according to the norm DIN 18195, part 10

### Drainage Capacity

Because of its material structure **Regupol® drain plus** can drain large quantities of water in the horizontal plane even under load. The exact quantities can be obtained from the table below.

| compression                                       | unit    | mean value X       |        |   |
|---|---------|--------------------|--------|---|
| Drainage capacity<br>$Q_{\text{stress/gradient}}$ |         | hydraulic gradient |        |   |
|   |         | i = 0,015          |        |   |
| Test direction CMD 1,275 kPa<br>hard/hard         | l/m · s | –                  | 0,0562 | – |
|   |         |                    |        | – |

Norm: DIN EN ISO 12958

The stated values are to be understood as guidelines. The depicted applications (photos) are examples only. Our information does not release users from the obligation of carrying out their own tests for possible uses.

## Regupol® resist FH

The **Regupol® resist FH** building protection sheet is the new product from BSW to protect membranes and insulation, and to reduce the fire load on flat roofs. The flame-retardant equipment makes the sheets made of PUR-bound rubber granulates resistant against flying sparks and radiant heat.

The fire resistance rating is considerably enhanced from a fire protection point of view. **Regupol® resist FH** insulation and building protection with a thickness of 8 mm is classified as B<sub>Roof</sub> (t1) and therefore considered to be hard roofing.

Under certain circumstances, **Regupol® resist FH** insulation and building protection hence considerably reduces the use of gravel filling and tile material, and hence the entire roof live load. This is a crucial advantage, particularly in the field of roof restoration.

**Regupol® resist FH** is important as a complement to membrane products which do not themselves meet the requirements of hard roofing.

### Regupol® resist FH Insulation and Building Protection with the general appraisal certificate at 8 mm thickness

The general appraisal certificate confirms that **Regupol® resist FH** is resistant to flying sparks and radiant heat according to DIN V ENV 1187.

General appraisal certificates are solely issued by the test centres accredited to do so by the German Institute for Civil Engineering (DIBt), in this case MPA Dresden.

The test was performed on both standard old roof varieties, FPO and bitumen membrane.

**Regupol® resist FH** considerably reduces the fire load.

**Regupol® resist FH** insulation and building protection greatly helps to prevent the outbreak of fire and its spreading to adjacent roofs.

### Areas of application

On the membranes of flat roofs underneath gravel filling, tile material, etc., underneath solar modules and as hard roofing.



Considered  
hard  
roofing

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



The diameter of the burn mark is only insignificantly larger than the fire basket. The fire did not penetrate the building protection sheet.

## Regupol® resist FH – Technical Details

### Material

PUR-bound rubber granulate with fire protection finish

### Tile Measurements

8,000 x 1,250 x 8 mm

### Weight per unit

approx. 6 kg/m<sup>2</sup>

### Low-Temperature Stability

to -40 °C

### Thermostability

to +120 °C

When installing under bituminous base course/hot bitumen, please keep the linear thermal expansion coefficient in mind (for further information please feel free to contact BSW).

### Tensile Strength

under tensile load  $\sigma_R = 0.50 \text{ N/mm}^2$ , in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 40 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.5 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Electromagnetic Shield at 1 GHz

max. approx. 35 dB

### Thermal Conductivity

Calculation value  $\lambda_z = 0.14 \text{ W/mK}$

### Reaction to Fire Classification

$B_{\text{Roof}}$  (t1) in line with EN 13501-5

### Coefficient of Thermal Expansion

approx.  $23.1 \times 10^{-5} / ^\circ\text{C}$

### Migration of Plasticisers

Installation on membranes which are not rubber-compatible may cause migration of plasticisers. Please use **Regupol® resist solar FH AK** to avoid migration of plasticiser.

### Resistance to water vapour diffusion factor $\mu$

21.6

(Water vapour diffusion equivalent air layer thickness  $s_{d,i}$ : 0.21 m)

### Protective layer

according to the norm DIN 18195, part 10

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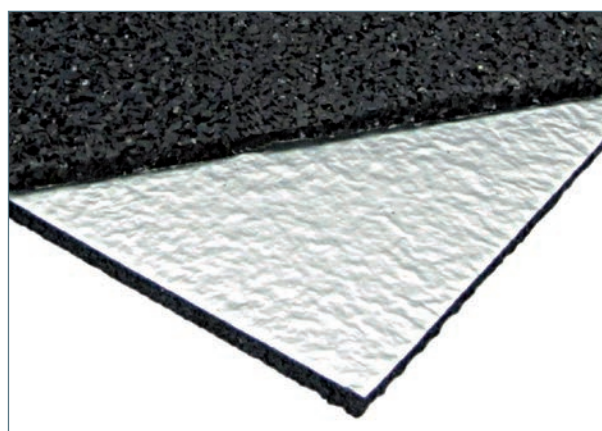
## Regupol® resist solar FH AK

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

**Regupol® resist solar FH AK** Insulation and Building Protection with the general appraisal certificate at 8 mm thickness

Flame-resistant:  
Classification  $B_{\text{Roof}}$  (t1)  
according to DIN EN 13501-5  
after DIN V ENV 1187 test

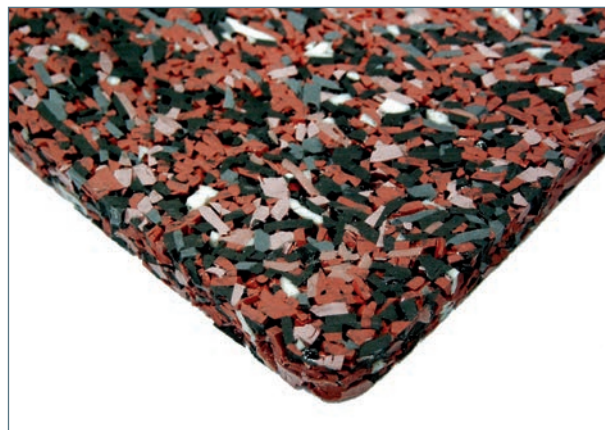
Considered  
hard  
roofing



More information can be found on page 8.

## Regupol® resist 9510

**Regupol® resist 9510** is an alternative to **Regupol® resist** for protective roof membranes and insulation, as well as for higher loads. **Regupol® resist 9510** consists of PUR-bonded butyl rubber and is classified as a protective layer in accordance with DIN 18195, part 10. In comparison to protective screed and concrete, **Regupol® resist 9510** possesses clear technical, physical and financial advantages. It is easy to install and can be optimally bonded to any kind of sub-bases by means of hot bitumen, special adhesives and plastic adhesives. The material is virtually odourless in terrace floors with open joints.



### Material

PUR-bonded butyl plastic

### Specific Weight

approx. 1,050 kg/m<sup>3</sup>

### Weight per unit

approx. 8.4 kg/m<sup>2</sup> at 8 mm thickness

### 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

Other sizes and thicknesses on request.

### Low-Temperature Stability

to -40 °C

### Thermostability

to +120 °C

When installing under bituminous base course/hot bitumen, please keep the linear thermal expansion coefficient in mind (for further information please feel free to contact BSW).

### Tensile Strength

under tensile load  $\sigma_R \geq 0.60$  N/mm<sup>2</sup>, in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R \geq 60$  %, in accordance with DIN EN ISO 1798

### Compression Stress

at 30 % deformation  $\geq 2.19$  N/mm<sup>2</sup> at 8 mm thickness, DIN EN ISO 3386/2

### Thermal Conductivity

Calculation value  $\lambda_z = 0.14$  W/mK

### Reaction to Fire Classification

E in line with EN 13501-1

### Coefficient of Thermal Expansion

approx.  $23.1 \times 10^{-5}$  / °C

### Resistance to water vapour diffusion factor $\mu$

21.6

(Water vapour diffusion equivalent air layer thickness  $s_{d,e}$ : 0.21 m)

### Migration of Plasticisers

Installation on membranes which are not rubber-compatible may cause migration of plasticisers. Please use **Regupol® resist solar FH AK** to avoid migration of plasticiser.

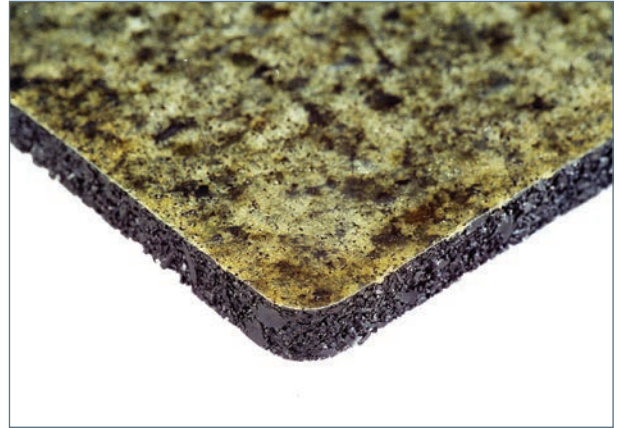
### Protective layer

according to the norm DIN 18195, part 10

The stated values are to be understood as guidelines. The depicted applications (photos) are examples only. Our information does not release users from the obligation of carrying out their own tests for possible uses.

## Regupol® hot plus

The underside of **Regupol® hot plus** is coated with a hot melt adhesive so that overlapping and vertical joints can be welded by hot air treatment.



### Material

PUR-bonded rubber granules and fibres, hot melt adhesive coating

### Weight per unit

approx. 6.0 kg/m<sup>2</sup> at 8 mm thickness

### Dimensions

1,250 mm wide  
6, 8 oder 10 mm thick  
Roll lengths on demand

### Low-Temperature Stability

to -40 °C

### Thermostability

to +90 °C

### Tensile Strength

under tensile load  $\sigma_R = 0.56 \text{ N/mm}^2$ , in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 40 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.60 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Reaction to Fire Classification

E in line with EN 13501-1

### Protective layer

according to the norm DIN 18195, part 10



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## Regupol® stabi plus

**Regupol® stabi plus** has a laminated fibre fabric coating which provides the necessary dimensional stability. Overlapping and shaping can be avoided.

**Regupol® stabi plus** offers approx. 75% less expansion / shrinking under variations in temperature in comparison to conventional standard products.



### Material

PUR-bonded rubber granules and fibres, fibre fabric

### Weight per unit

approx. 5.9 kg/m<sup>2</sup> at 8 mm thickness

### Dimensions

1,250 mm wide  
6, 8 oder 10 mm thick  
Roll lengths on demand

### Low-Temperature Stability

to -40 °C

### Thermostability

to +90 °C

### Tensile Strength

under tensile load  $\sigma_R = 1.74 \text{ N/mm}^2$ , in accordance with DIN EN ISO 1798

### Elongation at Break

$\gamma_R = 66 \%$ , in accordance with DIN EN ISO 1798

### Compression Stress

at 25 % deformation 0.90 N/mm<sup>2</sup>, DIN EN ISO 3386/2

### Reaction to Fire Classification

E in line with EN 13501-1

### Protective layer

according to the norm DIN 18195, part 10

The stated values are to be understood as guidelines. The depicted applications (photos) are examples only. Our information does not release users from the obligation of carrying out their own tests for possible uses.



## Regupol® Roofing and Pavement Tiles

**Regupol® Roofing and Pavement Tiles** serve as inspection paths on flat roofs and as protective basic elements for solar collectors, antennas and building engineering equipment.

Their flame-retardant properties make **Regupol® Roofing and Pavement Tiles** resistant to flying sparks and radiant heat. They meet the requirements of hard roofing.

Their dense, viscoplastic material properties protect the membrane. Compared to concrete tiles, their low weight greatly facilitates installation and is a static advantage. Moreover, the soft edges of the tiles minimise the risk of damaging the membrane. Thanks to a simple dowel system, installing the tiles is easy and they can be used instantly. **Regupol® Roofing and Pavement Tiles** are suitable for flat roofs both with and without load.

The available colours red, green and black mark the maintenance paths even with low visibility. On their undersides are crosswise drainage grooves, which makes it possible to position them in any direction towards the incline. **Regupol® Roofing and Pavement Tiles** can be laid directly on bitumen sheets. With some plastic membranes (PVC soft) an additional aluminium foil of fibres is required.

### Regupol® Roofing and Pavement Tiles with general appraisal certificate

The general appraisal certificate confirms that **Regupol® Roofing and Pavement Tiles** are resistant to flying sparks and radiant heat according to DIN V ENV 1187.

The test was performed on both standard old roof varieties, FPO and bitumen membranes.

### Areas of application

Maintenance paths on flat roofs with and without load, base panels for solar systems, antennas, building engineering equipment, etc.

### Installation

On elastomer-bitumen membranes, plastic membranes, liquid membranes, integrated in green roofs, underneath solar modules



Flame-resistant:  
Classification  $B_{\text{Roof}}(t1)$   
according to DIN EN 13501-5  
after DIN V ENV 1187 test

## Regupol® Roofing and Pavement Tiles – Technical Details

### Material

PUR-bound rubber fibres or rubber granulate dyed thoroughly, with fire protection finish. One-layer structure made of compacted, highly resistant material, underside with drainage grooves; edges with dowel holes, dummy joint on the top side at 500 mm.

### Plates Measurements

1,000 x 500 x 30 mm

1,000 x 500 x 43 mm

### Weight per unit

approx. 24 kg/m<sup>2</sup> with 30 mm

approx. 35 kg/m<sup>2</sup> with 43 mm

### Tolerances

Length/Width +/- 1 %

Thickness +/- 2 mm

### Colours



red brown



green



black

Colours shown may differ slightly from the originals due to the nature of the printing process.

### Low-Temperature Stability

to -40 °C

### Thermostability

to +120 °C

### Thermal Conductivity

Calculation value  $\lambda_z = 0.14$  W/mK

### Migration of Plasticisers

Installation on membranes which are not rubber-compatible may cause migration of plasticisers. With some plastic membranes (PVC soft) an additional separating layer of fibres is therefore required.

The stated values are to be understood as guidelines. The depicted applications (photos) are examples only. Our information does not release users from the obligation of carrying out their own tests for possible uses.



Considered  
hard roofing

## Regupol® walkway AK

The underside of this version of our **Regupol® Roofing and Pavement Tiles** is lined with aluminium foil to counteract the plasticiser loss of non-rubber-compatible membranes. Therefore, installation of these tiles is quicker. All other product properties of this version are identical with the standard version of the **Regupol® Roofing and Pavement Tiles**.

The elastic pavement tiles **Regupol® Roofing and Pavement Tiles** serve as inspection paths on flat roofs and as protective basic elements for solar modules, antennas and building engineering equipment.

Their flame-retardant properties make **Regupol® Roofing and Pavement Tiles** resistant to flying sparks and radiant heat. They meet the requirements of "hard roofing".

Their dense, viscoplastic material properties protect the membrane. Compared to concrete tiles, their low weight greatly facilitates installation and is a static advantage. Thanks to a simple dowel system, installing the tiles is easy and they can be used instantly.

The available colours of red, green and black can mark the maintenance paths even at low visibility. On their undersides are crosswise drainage grooves, which makes it possible to position them in any direction towards the incline. **Regupol® walkway AK** can be laid directly on bituminous waterproof sheeting and plastic (soft PVC) sheeting.

### Areas of application

Maintenance paths on flat roofs with and without load, base panels for solar systems, antennas, building engineering equipment, etc.

### Installation

On elastomer-bitumen membranes, plastic membranes, liquid membranes, integrated in green roofs, underneath solar modules



Chemically  
compatible  
with all types of  
membranes

## Regupol® walkway AK – Technical Details

### Material

PUR-bonded rubber granules and fibres, solid-coloured, with fire protection finish. One-layer structure made of compacted, highly resistant material, underside with drainage grooves; edges with dowel holes, dummy joint on the top side at 500 mm.

### Plates Measurements

1,000 x 500 x 30 mm  
1,000 x 500 x 43 mm

### Weight per unit

approx. 24 kg/m<sup>2</sup> with 30 mm  
approx. 35 kg/m<sup>2</sup> with 43 mm

### Tolerances

Length/Width +/- 1 %  
Thickness +/- 2 mm

### Colours



red brown



green



black

Colours shown may differ slightly from the originals due to the nature of the printing process.

### Low-Temperature Stability

to -40 °C

### Thermostability

to +120 °C

### Thermal Conductivity

Calculation value  $\lambda_z = 0.14$  W/mK

### Migration of Plasticisers

Does not occur thanks to aluminium lining on underside.  
(Regupol® walkway AK)

### Regupol® Roofing and Pavement Tiles with general appraisal certificate

The general appraisal certificate confirms that Regupol® Roofing and Pavement Tiles are resistant to flying sparks and radiant heat according to DIN V ENV 1187.

The test was performed on both standard old roof varieties, FPO and bitumen membranes.



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





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