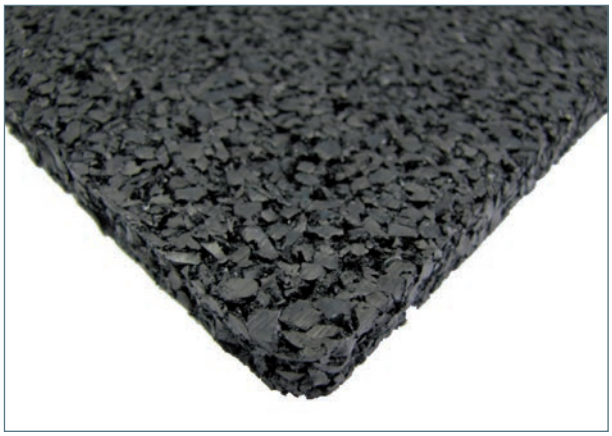
Regupol® resist FH

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_{Roof} (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.

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

Considered 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.

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 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.

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/m²

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 σ_R = 0.50 N/mm², in accordance with DIN EN ISO 1798

Elongation at Break
γ_R = 40 %, in accordance with DIN EN ISO 1798

Compression Stress
at 25 % deformation 0.5 N/mm², DIN EN ISO 3386/2

Electromagnetic Shield at 1 GHz
max. approx. 35 dB

Thermal Conductivity
Calculation value λ_Z = 0.14 W/mK

Reaction to Fire Classification
B_{Roof} (t1) in line with EN 13501-5

Coefficient of Thermal Expansion
approx. 23.1 x 10^{-5} / °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 μ
21.6
(Water vapour diffusionequivalent air layer thickness s_d: 0.21 m)

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.

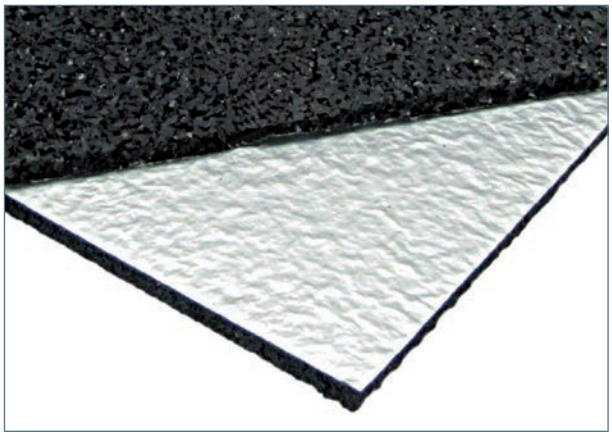
Regupol® resist solar FH AK

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

Considered hard roofing

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



More information can be found on page 8.