

Regupol® AG athletic surface (According to IAAF-Cert. No.: S-99-0010)



1. Base

A hot bituminous asphalt pavement following IAAF standards. Typically paved in 2 layers. Lower leveling course is 40 mm thick and open graded. Wearing course is 30 mm thick and impermeable. Asphalt pavement is paved by laser guided machinery over a compacted crushed stone base. Density, stability, slopes, compaction and planarity are critical. Final level tolerances must not exceed 4 mm under a 4 m straight edge. No step-like deviations are allowed. Concrete slabs are optional. BSW can provide detailed sub base and base specifications.

2. Adhesive

A two-component specifically formulated polyurethane adhesive as supplied by BSW. Consumption rate over dense asphalt at moderate temperatures: Approx. 1,0 – 1,1 kg/m².

3. Regupol® pad

Selected SBR-rubber fibers and granules in a strictly controlled sieve-size, proportionally mixed in high speed turbulent mixers, bound by tested and approved single component polyurethane binder. Binder is one component MDI polyurethane and does not contain heavy metals. Rubber/PU compound is engineered and prefabricated into a roll good that is uniform in thickness, density, compression, force reduction, tensile strength and elongation.

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Product: Regupol® 7608

Properties	Test norm	Result
Specific weight		760 kg/m ³
Weight per m ²		7.60 kg
Tensile Strength	DIN EN ISO 1798	0.85 N/mm ²
Elongation at Break	DIN EN ISO 1798	75 %
Tear Resistance	DIN ISO 34-1	6.0 N/mm
Stress at 25% Compression	DIN EN ISO 3386-2	0.75 N/mm ²
Force Reduction (without coating)	DIN 18 032, part 2	31 %
Vertical Deformation	DIN 18 032, part 2	1.05 mm
Temperature Resistance		- 40° C up to 115° C
Fire Resistance	DIN EN 13501-1	Class E

Thickness: 10 mm

Standard roll widths: 1.220 mm / 1.250 mm

Standard roll length: 40 lm or tailor made



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4. PUR / EPDM coating

A liquid - applied, spike resistant and seamless polyurethane coating consisting of various layers of solid polyurethane and finished with EPDM-rubber granules of a controlled sieve-size of 1,0 – 3,5 mm. Polyurethane is MDI-based and does not contain lead, mercury and other heavy metals.

Product: Regupur® wear coat

Properties	Test norm	Result
Density component A, at 23° C		1.42 g/cm ³
Density component B, at 23° C		1.08 g/cm ³
Density mix, at 23° C		1.26 g/cm ³
Mixing ratio		100 : 65
Shore A hardness after 24 h, at 23° C and 50% relative humidity		35
Shore A hardness at 23° C and 50% relative humidity after 28 days		50-55
Tensile Strength	DIN 53504	2.0 N/mm ²
Elongation at break	DIN 53504	150 %
Tear Strength	DIN 53515	3.7 N/mm

Thickness nominal: 4 mm

Standard colours: red / green / blue / grey

Other colours upon request

“My Regupol® track has been sizzling. It has allowed us to do all the sprint training to perform on the big day”. Usain Bolt



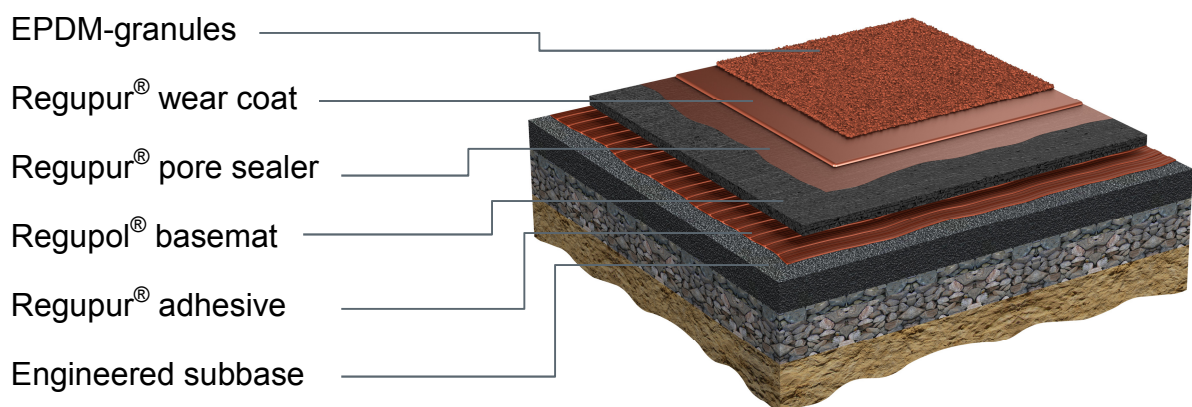
5. Application

Regupol® pad is entirely adhered to asphalt or concrete substrate by 2-component polyurethane Regupol® Contact adhesive, using notched steel trowels. Application rate: 1,0 – 1,1 kg/m². Regupol® mats are sealed and fused by 2-component polyurethane Regupur® pore sealer, using flat steel trowels or rubber squeegees. Application rate: 0,4 – 0,5 kg/m².

Regupur® wear coat is applied self – leveling over sealed pad using notched rubber squeegees. Application rate: 2,1 kg/m². Wear coat is applied “wet-in-wet” and homogeneous. Working joints are to be flush and sealed. No step-like deviations are allowed.

EPDM granules are broadcast into wet polyurethane wear coat. Supply rate is 3,5 kg/m². Excess EPDM is removed after polyurethane wear coat is cured. EPDM content in wearing surface after removal of excess granules: 2,8 kg/m² net.

Installation of Regupol® AG must be carried out either by BSW staff, under BSW – supervision or by approved Regupol® - applicators.



6. Track Marking

Athletic track marking material is a two – component polyurethane line marking paint as supplied or recommended by BSW.

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7. Test Data

Regupol® AG is IAAF – certified and complies with IAAF test criteria. Test report and IAAF Certificate are available upon request.

Physical properties of applied system in compliance with test report IST # 8663 according to IAAF Track Facilities Testing Protocols

Properties	Result
Overall thickness (mm)	15,4
Absolute thickness (mm)	14,0
Force reduction (%) At laboratory temperature: At temperature range 0° - 50°C:	40,2 36 – 41
Vertical deformation (mm) At laboratory temperature: At temperature range 0° - 50°C:	2,18 1,8 – 2,3
Coefficient of Friction (TRRL)	65
Tensile Strength (MPa)	0,72
Elongation (%)	63

Independently, product compatibility test according to EN 14877:2013 in compliance with test report IST # 8421 is available upon request.

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Environmental compatibility in compliance with test report IST # 8136 according to DIN V 18035-6:2004

Parameter	Results of Analysis	Limits acc. DIN V 18035-6
DOC – 48 h Result	21 mg/l	max. 40 mg/l
EOX Extraction	< 10 mg/kg	max. 100mg/kg
Lead (Pb)	< 0.020 mg/l	max. 0.04 mg/l
Cadmium (Cd)	< 0.001 mg/l	max. 0.005 mg/l
Chromate _{total} (Cr)	< 0.008 mg/l	max. 0.05 mg/l
Chromate VI (CrVI)	< 0.008 mg/l	max. 0.008 mg/l
Mercury (Hg)	< 0.001 mg/l	max. 0.001 mg/l
Zinc (Zn)	0.94 mg/l	max. 3.0 mg/l
Tin (Sn)	< 0.020 mg/l	max. 0.05 mg/l
Smell	slightly like rubber	no requirement
Color	colorless	no requirement
Muddiness	none	no requirement
Inhibition of Nitrification	< 1%	no requirement

The information contained herein and any other advice is given in good faith, based on BSW's current best knowledge of, and experience with the products when properly stored, handled and applied under normal conditions in accordance with BSW's recommendations. The information applies to the application(s) and product(s) expressly referred to herein. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. In any case, the sole responsibility of any consequences that result from the use of the product(s) lies with the user. Users are advised to always refer to the most recent version of the Product Data Sheet for the product concerned.