Stobielast® S 154.**

General product information

Solvent free, self levelling, two component polyurethane *coating* with good long term elasticity. ***Stobielast® S 154.**** is designed as a soft coating for the production of spike-proof synthetic sports surfaces.

Typical properties at 20 °C

	Polyol	Polyisocyanate	Mixture
Density [g/cm³] DIN 53217/2	1.26	1.08	1.19
Viscosity [mPa·s] DIN 53018/1+2	2500	4000	2400
Mixing ratio by weight	100	61	-

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Colours of S 154.**

Number	Colour	RAL-type
.00	colourless	
.01	black	approx. RAL 9005
.10	leaf green	approx. RAL 6002
.14	gentian blue	approx. RAL 5010
.16	oyster white	approx. RAL 1013
.22	oxide red	approx. RAL 3009
.34	sky blue	approx. RAL 5015
.35	sand yellow	approx. RAL 1002
.36	beige	approx. RAL 1001
.54	capri blue	approx. RAL 5019
.56	eggshell-light ivory	approx. RAL 1015
.57	window grey	approx. RAL 7040
.62	beige brown	approx. RAL 8024
.83	basalt grey	approx. RAL 7012
.86	pebble grey	approx. RAL 7032
.98	ultramarine blue	approx. RAL 5002

Other colours on request

Working conditions

Object and working temperature	10 - 40 °C
Relative humidity	0 – 90 %

Potlife

Approximately 15 - 30 minutes at 20°C. The potlife can be shortened by raising the temperature. At lower temperatures (below +15°C) the adding of accelerator is recommended.

Curing profile

The surface can be walked on after 10 - 14 hours at 20°C. Full curing is achieved after 4 - 7 days. Curing will be longer at lower temperatures. The temperature should not fall below 10°C during curing.

Typical values of cured coating

Shore hardness	45 A	DIN EN ISO 868
Tensile strength	2,2 N/mm^2	DIN 53455
Elongation at break	275 %	DIN 53455
Tear resistance	5.7 N/mm	DIN 53356

Processing

Mix the polyol component well before using. The polyol and polyisocyanate are then mixed together for at least two minutes at the correct ratio in a suitable mixer. When hand mixing, it is recommended that the mixture is transferred to an empty container for final blending. This procedure will avoid the risk of undermixed or sticky spots appearing on the surface. The material is then ready for application. Two component dosing and mixing machines are mostly used if solid polyurethane surfaces are applied. **The fresh surface must be broadcasted with EPDM or SBR rubber granules before it cures.** Excess granules are removed after curing is complete.

Important aspects for a successful application:

The potlife should be checked before use and has to be according to the season temperature.

The quality of the finished surface depends on the correct choice of EPDM or SBR rubber granules used. Ensure that the rubber granules are fully compatible with the coating by carrying out a small scale trial before starting work. Unsuitable rubbers will reduce, or even prevent, curing of the coating.

The air and ground temperature has to be between +13°C and 35°C.

The substrate must be dry and free from dust, oil and grease. In order to obtain optimum adhesion, the primer should be applied prior to the coating. Primer should be dry and fresh, and not effected by rain.

Written site records should be kept, recording details of batch numbers, used weight, laying progress, temperatures and humidity. A mixture should also be retained for reference.

Material consumption

1.2 - 1.3 kg/m²/mm. Exact quantity depends on surface type.

Precautions

Please refer to the material safety data sheet carefully before using.

Packaging

240 kg net polyol and 220 kg net isocyanate drums. Preweightened polyol/polyisocyanate working kits are also available.

Storage

The binder component must be protected against humidity and stored above 5°C. The ideal storage temperature is 15-25°C.

Shelf life

At 15-25°C, the material can be stored for at least 12 months, in the original unopened drums. Opened drums should be used up quickly.

Notice

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