

Product 02267500

**2-COMP-PU STRUCTURAL-SPRAY-COATING**

**1 General Data**

**Application Fields**

PORPLASTIC S675 is used for elastic sports surfaces as structural spray coating on top of polyurethane bound base mats. It is suitable for water permeable or impermeable sports surfaces in case of pore sealed mats. Typical uses are ball game courts, multi-purpose and tennis courts, school playgrounds and athletic tracks.

**Product Description**

PORPLASTIC S675 is a pigmented and solvent containing two component PUR-based Spray Coating. It consists of a coloured polyol-component and a prepolymer based on MDI.

In combination with EPDM granules (size 0,5 – 1,5 mm) and EPDM powder PORPLASTIC S675 shows good adhesion to recycling rubber granule or EPDM mats. The spray coated surfaces exhibit high elasticity. Excellent mechanical properties (high abrasion resistance) stand for a long durability of the coating.

**Sports Surfacing Systems**

Structural-Spray-Coatings „SB“ (DIN 18035/6)  
**PORPLASTIC SB economic**

Top layer for specially designed 2-Layer-Systems (DIN 18035/6)

**PORPLASTIC 2S perfect**

Impermeable Structural-Spray-Coatings „ISB“ (DIN 18035/6)

**Technical Support**

For detailed descriptions of PORPLASTIC systems see PORPLASTIC system data sheets or contact our technical support.

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**(A) Technical Data**

<i>Liquid</i>	
1. Density (23°C) (DIN 53217)	1.09 g/cm <sup>3</sup>
2. Viscosity (23°C)	ca. 1000 mPas
3. Packing size	A: 210 kg (1x) B: 210 kg (2x)
4. Colour	Blue, green, yellow, others on request
5. Shelf life / Storage	12 months at 10–25°C, avoid direct sunlight
6. Permissible relative humidity	min. 30% - max. 90%
7. Substrate and application temperature	15-30°C (min. 3°C above dew point)
8. Mixing ratio A: B	1: 2
9. Material consumption per layer (incl. granules ) in 2 layers (incl. granules)	approx. 1 kg/m <sup>2</sup> 1.8 – 2.0 kg/m <sup>2</sup>
10. Tensile strength (DIN 53504)	12 N/mm <sup>2</sup>
11. Elongation at break (DIN 53504)	ca. 600%
12. Tear strength (DIN 53515)	25 N/mm <sup>2</sup>

**Manufacturer:**

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## 2 Processing Instructions

### Substrate Preparation

PORPLASTIC S675 is applied directly on top of pre-fabricated or in situ installed rubber or EPDM mats which have to be dry, load bearing, clean and free of loose and brittle particles and substances which impair adhesion such as oil, grease, paint or other contaminants. The application of PORPLASTIC S675 should be executed within 48 hours after the installation or sealing of the elastic mat. The interval between two applications of the spray coating should also not exceed 48 hours. In case of longer breaks, the use of PORPLASTIC P270 as primer is recommended after cleaning thoroughly. Adhesion tests on site might be useful.

### Processing

PORPLASTIC S675 is delivered in 2 components in drums. Before use the single components have to be homogenized by rolling the drums. Then, 1 part by weight component A and 2 parts by weight component B are mixed thoroughly for at least 2 minutes in a suitable mixer. In order to apply the structural spray coating PORPLASTIC S675 is mixed homogeneously with EPDM granules (size 0,5 - 1,5 mm) at a mixing ratio of coating and EPDM granules: 60 : 40 (3:2) parts by weight. After stirring 5-10% of EPDM powder are added and the mixture stirred until homogeneous.

Processing temperature should be between 15 – 25°C. If necessary the mixture can be diluted by adding max. 5% of solvent. At low temperatures the percentage of EPDM powder can be reduced slightly. For spraying the material onto the base a specially designed spraying machine is used.

**Special advice:**

EPDM granules have to be well imbedded into the polyurethane layer for obtaining good wear resistance of the sprayed surface. Therefore a rate of 2.0-3.0 kg/m<sup>2</sup> of the mixed material (including granules and powder) have to be applied in two or three layers. The coverage rate per coat should not exceed 1.0 kg/m<sup>2</sup> as otherwise foaming of the coating can occur.

During the first hours after application, the coating has to be protected from direct contact with water. In case of (expected) rain, PORPLASTIC S675 should not be applied.

Never use humid EPDM granules or powder as this would cause a significant shortening of the pot-life impairing the surface structure and the cleaning of the spraying machine.

At low temperatures and humidity, the speed of reaction is reduced resulting in a longer pot life, re-coating interval and open time. The speed of reaction is accelerated at high temperatures and humidity and the converse is true. Direct sunshine shortens the time frames considerably. In contrary to the installation of base mats under no circumstances is water to be sprayed onto the surface when low air humidity increases the curing time.

Depending on the colour PORPLASTIC S675 can show a slight chalking or discoloration when it is exposed to UV-light. In this case an additional coating with a UV-resistant sealing in the same colour will be the best protection. For further information please contact our technical service.

### Safety Instructions

For health and safety protection, transport regulations and waste management please consider the Material Safety Data Sheet. Users are advised to wear gloves and eye protection when mixing or applying PORPLASTIC S675.

PORPLASTIC S675 is non-hazardous in its cured condition.

### Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and
- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

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