

PORPLASTIC S670 **Technical Data Sheet**

Product 02267001

1-COMP-PUR STRUCTURAL-SPRAY-COATING, moisture curing

1 General Data

Application Fields

PORPLASTIC S670 is used for elastic sports surfaces as structural spray coating on top of polyurethane 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 S670 is a pigmented and solvent containing single component PUR-based Spray Coating based on MDI.

PORPLASTIC S670 shows good adhesion to recycling rubber granule or EPDM mats and high elasticity - particularly when filled with EPDM granules (size 0,5 – 1,5 mm) and EPDM powder. The spray coated surfaces exhibit excellent mechanical properties and high abrasion resistance ensuring a long durability of the coating.

PORPLASTIC S670 is moisture curing.

Tested Sports Surfacing Systems

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

PORPLASTIC *SB economic*

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)	1.07 g/cm ³
2. Viscosity (23°C)	ca. 1000 mPas
3. Packing size	200 kg
4. Colour	oxide red, oxide green others on request
5. Shelf life / Storage	6 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. Material consumption in 2 layers	1.8 – 2.0 kg/m ² incl. granules / powder
9. Tensile strength (DIN 53504)	12 N/mm ²
10. Elongation at break (DIN 53504)	ca. 600%
11. Tear strength (DIN 53515)	25 N/mm ²

Licensed Producer:

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1-COMP-PUR STRUCTURAL-SPRAY-COATING, moisture curing**2 Processing Instructions****Substrate Preparation**

PORPLASTIC S670 is applied directly on top of rubber or EPDM mats (either pre-fabricated or installed in situ) 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 S670 should be executed within 48 hours after the installation or pore-filling 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 S670 is ready to use but has to be homogenised by rolling the drums before application. Processing temperature should be between 15 – 25°C.

In order to apply the structural spray coating PORPLASTIC S670 is mixed homogeneously with dry EPDM granules (size 0.5 – 1.5 mm) and dry EPDM powder in a suitable mixing device. Mixing ratio of binder : EPDM granules is 60 : 40 parts by weight. Then additional 5-10 % of dry EPDM powder is added. For achieving a uniform sprayed surface EPDM granules and powder are added to the liquid coating and are mixed properly for at least 2 minutes.

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.

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.

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 kg/m² of the mixed material have to be applied in two layers. The coverage rate per coat should not exceed 1.0 kg/m² as otherwise foaming of the coating can occur.

Curing:

During the first hours after application, the coating has to be protected from direct contact with water. In case of (expected) rain, PORPLASTIC S670 should not be applied.

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.

When the humidity is below 40% the spray coat may be sprayed with water to avoid unacceptable curing times, which could impair the quality of the elastic layer.

UV-Stability:

Depending on the colour PORPLASTIC S670 can show a slight chalking or discoloration when it is exposed to UV-light. For the colours oxide red and oxide green only the gloss will change slightly. For other colours e.g. blue, grey, beige massive changes are to be expected. In this case an additional coating with a UV-resistant sealing in the same colour will be the best protection.

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 S670.

PORPLASTIC S670 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.

As all PORPLASTIC data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.porplastic.com or contact us directly).

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