

Product 02277501

1-comp. -PU BINDER for elastic layers under synthetic turf, moisture curing

1 General Data

Application fields

PORPLASTIC T775 is used for elastic sports surfaces as binder for in situ base mats with recycled rubber granules. Typical uses are elastic mats under synthetic turf surfaces.

Product Description

PORPLASTIC T775 is a transparent and solvent free single component PU-Binder. It is based on MDI/TDI with a content of monomeric TDI lower than 0,5% and suitable for high and low temperature applications.

The defined viscosity of PORPLASTIC T775 effects an excellent mixing with rubber granules while there is hardly any run-off from the granules. Another characteristic is the long curing and therefore application time allowing day construction joints to be easily and correctly done.

The yellowing that occurs when PORPLASTIC T775 is exposed to UV-light does not affect its mechanical properties.

PORPLASTIC T775 is moisture curing.

Tested Sports Surfacing Systems

Binder for elastic base mats for PORPLASTIC **GREEN** synthetic turf systems (DIN 18035/7)

Technical Support

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

Phone: +49 (0) 7472-937970

E-Mail: info@porplastic.de

(A) Technical Data

Liquid (Binder)

1. Density (23°C) (DIN 53217)	1,05 g/cm ³
2. Viscosity (23°C)	ca. 4100 mPas
3. Packing size	210 kg drum 1050 kg container (IBC)
4. Colour	yellow
5. Shelf life / Storage	12 months at 10–25°C avoid direct sunlight
6. NCO content (DIN 53185)	ca. 9.0 %
7. Substrate and application temperature	10-35°C (mind. 3°C above dew point)
8. Permissible relative humidity	min. 40% – max. 90%
9. Can be walked on (depending on rel. humidity) at 12°C at 23°C at 30°C	after 48 – 72 hours after 24 – 48 hours after 18 – 24 hours
10. Setting point	5°C
11. Material consumption PORPLASTIC ES15 (15 mm thickness with SBR-granules 2 – 4 mm) PORPLASTIC ES20 (20 mm thickness with SBR-granules 2 – 4 mm) PORPLASTIC ES25 (25 mm thickness with SBR-granules 2 – 7 mm) PORPLASTIC ES30 (30 mm thickness with SBR-granules 2 – 7 mm) PORPLASTIC ET35 (35 mm thickness with SBR-granules 2 – 7 mm and chippings 2-7 mm)	ca. 1.2 kg binder + ca. 10 kg granules ca. 1.6 kg binder + ca. 13 kg granules ca. 1.9 kg binder + ca. 16 kg granules ca. 2.4 kg binder + ca. 20 kg granules depending on fillers

Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str. 78, D-72108 Rottenburg, Tel. +49/7472-94999-0, info@viacor.de, www.viacor.de

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2 Processing Instructions

Substrate Preparation

The dry and load bearing substrate (asphalt or concrete) has to be clean and free of loose particles and substances which impair adhesion such as oil, grease, paint or other contaminants. For achieving an optimal adhesion between the elastic mat and the substrate it is necessary to apply PORPLASTIC P270 as primer (imperative on concrete).

The installation of the rubber granule mat should then be realized 4 – 6 hours after the primer.

Processing

The binder is mixed with dry recycling rubber granules (size 1 – 4 mm for meeting DIN standards). Use a forced mixer rotating at approximately 300 rev/min for 3 – 5 minutes. Ensure that the mixer reaches the sides and bottom areas of the mixing vessel. Processing temperature should be between 15 – 25°C.

The mixture is then spread on the prepared substrate and carefully compacted in order to achieve good surface strength by using a specially designed paving machine.

Construction joints should be done before the material has significantly cured with particular attention, to avoid cracks and weak parts in these areas. Joints may be reworked with tamper and trowel and if already cured be primed with PORPLASTIC P270 before the next installation part.

Mixing ratio of recycling granules and binder: **100 : 12** (parts by weight).

These proportions have to be kept as otherwise a decrease in mechanical characteristics will be the consequence and the requirements of DIN 18035 might not be met.

Rubber / EPDM Granules:

We recommend only to use recycling rubber granules that have been tested and shown to be suitable for the application with PORPLASTIC T775.

In any case ensure that granules are dry as moisture will accelerate the curing of the binder making installation more difficult or even impossible and may result foaming in the binder, leading to an uneven surface and a weak mat.

Influence of humidity and temperature.

At low temperatures and humidity, the speed of reaction of the binder is reduced resulting in a longer pot life, re-coating interval and open time. The viscosity increases requiring increased mixing time and a higher consumption of binder.

In contrary the speed of reaction is accelerated at high temperatures and humidity and the converse is true.

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

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 T775. PORPLASTIC T775 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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