

#### PORPLASTIC T776

### **Technical Data Sheet**

Product 02277676

# 1 comp. PU BINDER for elastic base mats, moisture curing

# **1** General Data

# **Application fields**

PORPLASTIC T776 is used for elastic sports surfaces as binder for in situ base mats with recycled rubber granules. Typical uses are elastic layers for ball game courts, multi-purpose and tennis courts, school playgrounds and athletic tracks.

#### **Product Description**

PORPLASTIC T776 is an unpigmented and solvent free single component PUR-Binder of medium viscosity. 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 T776 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. PORPLASTIC T776 is moisture curing.

# **Tested Sports Surfacing Systems**

Binder for elastic and wearing layer:

- PORPLASTIC*FUN*
- PORPLASTIC RACE
- PORPLASTIC**ACTIVE**

# **Technical Support**

For detailed descriptions of PORPLASTIC systems see PORPLASTIC system data sheets or contact our technical support. Phone: +49 (0) 7472 – 94 999 - 0

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#### (A) Technical Data

#### Liquid (Binder)

1.	Density (23°C) (DIN 53217)	1,15 g/cm <sup>3</sup>
2.	Viscosity (23°C)	ca. 3600 mPas
3.	Packing size	215 kg drum
		1000 kg IBC
4.	Colour	transparent, yellowing
5.	Shelf life / Storage	12 months at 10–25°C
6.	NCO content (DIN 53185)	ca. 10.8 %
7.	Substrate and application tem- perature	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	
	elastic-layer for RACE systems (10 mm layer thickness)	ca. 1.2 kg binder + ca. 6.5 kg granules (grain size 1 – 4 mm)
	EPDM-wearing layer for RACE/ FUN systems (10mm thick- ness)	ca. 2.0 kg binder + ca. 10 kg EPDM (grain size 1 – 4 mm)
	highly elastic layer for FUN - systems (minimum layer thick- ness 20 mm	ca. 1.2 kg binder + ca. 13 kg granules (grain size 2-6 mm)
1		1

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

For concrete PORPLASTIC EP-P210 is imperative, the rubber granule mat can be applied after 12-16 h.

#### Processing

The binder is mixed with dry recycling rubber granules. 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  $15-25^{\circ}$ 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 primered with PORPLASTIC P270 before the next installation part.

#### Mixing ratio

- for elastic layers in RACE systems: recycling granules (1-4 mm) and binder **100 : 18** (parts by weight)
- for highly elastic layers in FUN systems: recycling granules (2-6 mm) and binder 100 : 9 (parts by weight)
- for EPDM layers in RACE / FUN systems: EPDM (1-3 mm) and binder: 100 : 20 (parts by weight)

These proportions have to be kept as otherwise a decrease in mechanical characteristics will be the consequence.

#### Influence of temperature and humidity:

At low temperatures and humidity, the speed of reaction of the binder is reduced resulting in a longer pot life, recoating 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 ist 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.

#### Rubber / EPDM Granules

We only recommend to use recycling rubber granules that have been tested and shown to be suitable for the application with PORPLASTIC T776. 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 week mat.

Colour changes at the surface caused by the exposure to UV-light, can occur within the first hours, days or weeks after installation. They will normally redecline due to the abrasion of daily use of the surface. Especially in the case of sensitive colours (e.g. blue, grey, beige etc.) a supplementary and light stable sealing in the corresponding colour is the best prevention.

# **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 T776. PORPLASTIC T776 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 characeristics 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 characteritics of the product.

Due to different materials, sub-bases and working conditions, no guaratee 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 vialation 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 VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see <u>www.viacor.de</u> or contact us directly).

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