Goodspeed T779 **Technical Data Sheet**

(Formerly known as PORPLASTIC T779) **Product 02277901**

1-COMP-PUR BINDER for elastic playground surfaces, high reactivity

1 General Data

Application fields

Goodspeed T779 is used in sports- und leisure areas as binder with enhanced reactivity for in situ base mats with recycled rubber granules and for coloured EPDM granule mats for elastic playgrounds and decorative surfaces.

Product Description

Goodspeed T779 is an unpigmented and solvent free single component PUR-Binder based on MDI.
The defined viscosity of Goodspeed T779 effects an excellent mixing with rubber granules while there is hardly any run-off from the granules. Another characteristic is the high reactivity. Goodspeed T779 should therefore be applied at low temperatures and for small areas only. It is suitable also for manual processing.
The yellowing that occurs when Goodspeed T779 is exposed to UV-light does not affect its mechanical properties.
Goodspeed T779 is moisture curing.

Surfacing Systems

Binder for base mats and top layers in:

Goodspeed ***FUN***
elastic playground and leisure surfaces

Technical Support

For detailed descriptions of Goodspeed systems see Goodspeed system data sheets or contact our technical support.
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(A) Technical Data	
Liquid (Binder)	
1. Density (23°C) (DIN 53217)	1,04 g/cm³
2. Viscosity (23°C)	ca. 3000 mPas
3. Packing size	215 kg drum 1000 kg container (IBC)
4. Colour	Yellow-brown
5. Shelf life / Storage	12 months at 10–25°C avoid direct sunlight
6. NCO content (DIN 53185)	ca. 9 %
7. Substrate and application temperature	5-20°C (mind. 3° above dew point)
8. Permissible relative humidity	min. 40% – max. 90%
9. Can be walked on 8°C 15°C (depending on rel. humidity)	 after 24 hours after 16 hours
10. Material consumption	
EPDM top layer for FUN (layer thickness 20 mm)	ca. 2.0 kg binder + ca. 10 kg granules (size 1 – 3 mm)
highly elastic base layer for FUN systems (minimum 20 mm layer thickness)	ca. 1.2 kg binder + ca. 13 kg granules (size 2-6 mm)

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1-COMP-PUR BINDER for elastic playground surfaces, high reactivity

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 Goodspeed 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). 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 5- 20°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 or by manual processing.
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 Goodspeed P270 before the next installation part.

Mixing ratio of recycling granules (2-6 mm) and binder for basic elastic layer: **100 : 9** (parts by weight)
Mixing ratio of EPDM granules (1-3 mm) and binder for top layer: **100 : 20** (parts by weight)
These proportions have to be kept as otherwise a de-crease in mechanical characteristics will be the consequence.

Rubber / EPDM granules:
We only recommend the use of recycling rubber granules that have been tested and shown to be suitable for the application with Goodspeed T779. In any case ensure that granules are dry as moisture will accelerate the cur- ing 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.

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, 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.

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 Goodspeed T779.
Goodspeed T779 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 Goodspeed 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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