



TECHNICAL DATA SHEET

OUTDOOR SPORTS SURFACE *TETRAPUR ENZ III/S TYPE*

Polyurethane coating of “sandwich” type, flexible, seamless, water impermeable, two-layer, anti-slide, resistant to spikes, installed “in situ” (directly at the construction site).

Total thickness of surface: ≥ 13 mm

The colour of surface at customer's request.

Application:

- athletics tracks (recommended)
- multi-purpose sports fields (optional)
- outdoor sports venues and recreational centers

The surface meets:

- technical parameters according to PN-EN 14877:20014 standard
- IAAF certificate number S-09-0097
- hygienic attestation of the National Institute of Hygiene
- tests on contents of trace elements of heavy metals

Components needed for casting the surface:

- TETRAPUR 25 or TETRAPUR 25/A – the primer
- TETRAPUR 154 – 1 component bonding agent
- TETRAPUR 110 – 2 component polyurethane pore sealer
- TETRAPUR 136 – 2 component self leveling surfacing coat
- SBR rubber granules 1 - 3,5 mm
- EPDM granules 1 - 3,5 mm

Recommended substrates:

- concrete
- asphaltic concrete





Application Method:

- 1. Substructure condition** – the base course has to be stable, firm, dry, clean and load bearing, free of loose and brittle particles and substances which impair adhesion, such as oil or grease etc. If the substructure does not meet the above mentioned requirements, it has to be blast cleaned, planed or grinded. The moisture of concrete substructure should not be higher than 4% (to be checked by CM equipment). The substructure temperature has to be at least 3°C above the current dew point.
- 2. Priming layer** – the substructure has to be primed to improve its mechanical properties and adhesion with the mat.
 - Apply the primer TETRAPUR 25 on the concrete substructure by means of paint roller or spray device and leave it for 4 -8 hours for solvent evaporation before casting the rubber mat, or
 - Apply the primer TETRAPUR 25A on the asphaltic concrete substructure by means of paint roller or spray device and leave it for 4 -24 hours for solvent evaporation before casting the rubber mat
- 3. Base mat** – Mix thoroughly SBR rubber granules with the PU binder TETRAPUR 154 in a special mixer so that each granule is covered with the binder. Put the prepared mixture on the primed substructure by means of the spreader and leave it until it hardens. The curing time depends on the temperature and humidity of the air and the base.
- 4. Sealing coat**– Mix the components A and B of TETRAPUR 110 to obtain a uniform mass and then spread a thin layer over the base mat.
- 5. Top layer**– Mix the components A and B of TETRAPUR 136 in ratio 100 parts (comp. A) to 65 parts (comp. B) and spread evenly on the base mat. When the layer is self leveled broadcast the surface with EPDM granules so that the whole surface is covered with some excess. Leave the system for ca 24h until it hardens. Remove the excess of granules after the system has bound.
- 6. Line marking** – After hardening the system make line marking using a suitable paint according to the design.
- 7.** To obtain the best parameters it is recommended to install the surface in the temperature range of 10 - 30°C. In good weather conditions it is allowed to install the surface over 7°C.



Structure of the surface 13mm thick

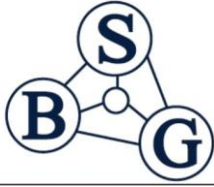
SURFACE		Components	Theoretical consumption	Layer thickness
PRIMING LAYER	Primer	TETRAPUR 25 concrete	0,2 – 0,25 kg/m ²	film
		TETRAPUR 25 A asphaltic concrete	0,15 – 0,2 kg/m ²	
RUBBER MAT	SBR Rubber mat	TETRAPUR 154	1,45 kg/m ²	10 mm
		SBR granules 1 – 3,5mm	7,0 kg/m ²	
SEALING COAT	Bonding filler	TETRAPUR 110 comp. A 4 parts	1,5 kg/m ²	film
		TETRAPUR 110 comp. B 1 part		
TOP WEARING LAYER	Surfacing coat	TETRAPUR 136 comp. A 100 parts	2,3 kg/m ²	3 mm
		TETRAPUR 136 comp. B 65 parts		
		EPDM granules 1-3,5 mm	2,8 kg/m ²	
CLOSING LAYER	Closing lacquer*	TETRAPUR 90	0,25-0,3 kg/m ²	film
	Line paint	TETRAPUR 91	20-30 g/mb	

* as an option, to prevent the surface from abrasion and UV radiation, it is recommended to spray it twice with the PU lacquer

NOTE: for installing the surfaces in UV sensitive colours like grey, blue, beige, violet etc. it is recommended to apply the UV stable binders at the top layer to avoid the change of colour tint.

Disclaimer:

The above-mentioned data base on our experience and believes and are in every respect without obligation; Also the data concerning the suitability of products and systems by their application in production. Due to the diversity of materials, substrates and different work conditions no guarantees of work results can be substantiated on the strength of any legal relation as well as the resulting from their advices or verbal consulting. This technical instruction can and should give advice noncommittally, therefore, no claims can be laid. Our data do not release the buyer / manufacturer from checking or proving the suitability of products or systems in order to apply them in production on their own account and scope e.g. by bedding the trial surfaces. Our verbal advice or in writing or by way of trials is tentative. In other matters our conditions of sale, payment and delivery are in force. This issue of instruction replaces its all previous versions.



Selected technical properties of the surface:

PROPERTIES	RESULTS	STANDARD
Tensile strength, N/mm ² (MPa)	0.66	≥ 0.4
Elongation at break, %	51	≥ 40
Vertical deformation on concrete substrate, mm	2,1	≤ 3
Abrasion resistance by Taber, g	3,4	≤ 4
Resistance to aging evaluated by change of colour (grade in the grey scale)	4	≥ 3
Skid resistance, pendulum test, CEN-slide, C-scale,		
PTV-units - dry surface	86	80 - 110
- wet surface	62	55 - 110
Shock absorption, force reduction on the concrete substructure, %	41	35 - 50

The results presented above were obtained with the laboratory samples made with use of the granules of Geyer&Hosaja made.