



BSG SP. Z O. O.

95-100 Zgierz, Polska NIP PL7321972348
ul. Andrzeja Struga 20 Regon 473165312
Tel/Fax.: +48 716 23 38 BDO 000026338
www.bsg.pl

TECHNICAL DATA SHEET

OUTDOOR SPORTS SURFACE ***TETRAPUR ENZ IIIM TYPE***

Coating made of full polyurethane, flexible, seamless, anti-slide, water-impermeable, resistant to spikes, and installed “in situ” (directly at the construction site).

The total thickness of the surface: 14 mm

Colour of the surface at the customer`s request.

Application:

- professional athletics tracks
- multi-purpose sports fields (optional)
- outdoor sports venues and recreation centers

The surface meets:

- technical parameters according to PN-EN 14877:2014 standard
- IAAF Class 1 Athletic Facility certificate № S-10-0119
- hygienic attestation issued by 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 – primer
- TETRAPUR 136 – two-component self-leveling elastic surfacing coat
- TETRAPUR 137 – two-component self-leveling elastic surfacing coat
- EPDM low density rubber granules 1-3,5 mm
- EPDM rubber 1-3.5 mm

Recommended substructures:

- 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 ground. The moisture of the 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 using 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 using paint roller or spray device and leave it for 4 -24 hours for solvent evaporation before casting the rubber mat
3. **Base mat, 1st layer** – Mix thoroughly component A of TETRAPUR 137 to obtain a uniform mass and then add the component B of TETRAPUR 137 in ratio 100 parts (comp. A) to 95 parts (comp. B) and mix thoroughly, not aerating the mixture. Put the prepared mixture on the substructure and spread evenly. When the layer is self leveled, broadcast the surface with EPDM light 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.
4. **Base mat, 2nd layer** – Repeat the whole procedure as in the case of the base mat, 1st layer.
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 the system hardens, 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 14mm 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	
BASE MAT	1st interlayer	TETRAPUR 137 comp. A 100 parts	2,2 kg/m ²	5 mm
		TETRAPUR 137 comp. B 95 parts		
		EPDM light granules 1-3,5	2,3 kg/m ²	
	2nd interlayer	TETRAPUR 137 comp. A 100 parts	2,2 kg/m ²	5 mm
		TETRAPUR 137 comp. B 95 parts		
		EPDM light granules 1-3,5	1,9 kg/m ²	
TOP WEARING LAYER	Surfacing coat	TETRAPUR 136 comp. A 100 parts	2,8 kg/m ²	4 mm
		TETRAPUR 136 comp. B 65 parts		
		EPDM granules 1-3,5 mm	2,6 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 colors like grey, blue, beige, violet, etc. it is recommended to apply the UV stable binders at the top layer to avoid the change of color tint.

Disclaimer:

The above-mentioned database 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 relationship as well as the resulting from their advice 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 to apply them in production on their 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)	0.83	≥ 0.4
Elongation at break, %	128	≥40
Vertical deformation on a concrete substrate, mm	1,7	≤ 3
Abrasion resistance by Taber, g	2	≤ 4
Resistance to aging evaluated by a change of color (grade in the greyscale)	3-4	≥ 3
Skid resistance, pendulum test, CEN-slide, C-scale, PTV-units		
- dry surface	90	80 - 110
- wet surface	61	55 - 110
Shock absorption, force reduction on the concrete substructure, %	39	35 - 50

The results presented above were obtained with the laboratory samples.