



Benefits & Features

- ✓ Tested to absorb projectiles up to 7,000 joules, reliably preventing ricochets and stray bullets
- ✓ High fire rating (Bfl-s1) according to EN 13501-1.
- ✓ Addition of PU coating to SHIELDTAC® ricotiles. Creates a safe, seamless, fireproof and easy to clean surface for shooting ranges.
- ✓ With the Repair Kit, damaged areas can be easily repaired within a day, matching the existing colour.
- ✓ Available in 8 standard RAL colours. Additional colours are available upon request.
- ✓ 9 line marking colours are optionally available.



Government & Defence

- ✓ NATO CAGE-registered manufacturer (NCAGE: **CF121**)

**DOWNLOAD INSTALLATION
RECOMMENDATION**

Product data sheet no. 9162 - R-05 | Issue: September 2026
previous product names: SPORTEC® shooting SFR

SHIELDTAC® ricosys PU

Safety Surface for indoor use

SHIELDTAC® ricosys PU, previously known as **SPORTEC®** shooting SFR, is a special PU-based coating that is applied to **SHIELDTAC®** ricotiles as a system component.

Material

Material	Polyurethane
Layer Build-up	3rd Layer – Finish SHIELDTAC® ricosys Finisher
	2nd Layer – Self-Levelling SHIELDTAC® ricosys Protector
	Optional Scratch Layer <i>Thin SHIELDTAC® ricosys Protector layer to fully close pores and avoid “pin-holes”</i>
	1st Layer – Pore Sealer SHIELDTAC® ricosys Pore Filler
Base	SHIELDTAC® ricotile

Product Design

Colour(s)	Traffic Red, Mouse Grey, Light Grey, Reseda Green, Pale Green, Azure Blue, Pigeon Blue and Ruby Red		
			
			
			

low colour differences are conditional of material

Dimensions / Weight / Tolerances

Thickness(es):	approx. 42 mm SHIELDTAC®- ricotile 40 mm + ricosys PU 2 mm
	approx. 45 mm SHIELDTAC®- ricotile 43 mm + ricosys PU 2 mm
	approx. 62 mm SHIELDTAC®- ricotile 60 mm + ricosys PU 2 mm
	Tolerance: ± 2 mm (SHIELDTAC ricotile)

Product Testing

Fire resistance	B _n -s1 (DIN EN 13501-1)
VOC-emission rating	French VOC Regulation AFFSET (A+)
Anti-slip property	R 10 (DIN EN 16165)
Step sound insulation	20 dB (at 45 mm) (DIN EN ISO 10140-3:2021-09)
Hardness	80 ± 5 Shore A (DIN 53505)
Electrostatic properties	0,9 kV (EN 1815:2016) (antistatic)
Vehicle Traffic	Details regarding vehicle traffic suitability are available upon request.
Chemical Resistance	Chemical resistance data is available upon request.
Wear Resistance (ASTM D4060 CS 1000/1kg)	0,02 g

Ballistic Tests

SHIELDTAC® ricosys PU 45 mm (43mm + 2mm)

Testing Institute	Test basis
HTBLVA Ferlach, Austria	In accordance with VPAM-ARG, Version 3, with an extended scope of testing (including a 10° angle of impact and additional lead-free projectiles), Test report 200925, 201025, 201125 and 201225, Energy range: 200–7,000 J

SHIELDTAC® ricosys PU 62 mm (60mm + 2mm)

Testing Institute	Test basis
Beschussamt München (Munich Proof House)	In accordance with the operational and testing Instructions for conducting ballistic tests on materials for the German Armed Forces, Version 4, Test Report 26M005A01 Energy range: 400–3,500 J

We can provide further information and full test reports upon request.

Note: **SHIELDTAC® ricosys PU** is intended for projectile energies of at least 200 J.

Technical Specifications

Density (20°C)	approx. 1300 kg/m ³
Pot life (20°C)	ricosys Pore Filler: approx. 20-25 minutes ricosys Protector: approx. 15 – 20 minutes ricosys Finisher: approx. 45 – 60 minutes
Recoatable (20 °C)	each layer after approx. 16h and a maximum within 48h
Fully cured (20 °C)	after approx. 7 days

Storage Advice

The goods must always be stored in tightly sealed original containers in a cool, dry place protected from direct sunlight. The optimum storage temperature is between approx. +5 °C and +25 °C. When stored correctly, the shelf life of the components is approximately 12 months. The containers are not frost-resistant, which must be taken into account during transport.

Installation

Installation has to be done in accordance with the Installation recommendation of **SHIELDTAC® ricosys PU**. The latest version of the installation recommendation can be downloaded from the website of KRAIBURG Relastec GmbH & Co. KG.

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