



Test Report

Determination of sports surface properties

Report-No.:	903 4594-03
Client:	Dr. Schutz GmbH Steinbrinksweg 30 D-31840 Hessisch Oldendorf
Order-No. (Client):	2154153
Order-No. (MPA):	903 4594 000 /Scz
Test Item:	PVC surface treated with „PU Sealer mat“
Specification Applied:	[1] DIN EN 14904:2006-06 Surfaces for sports areas –Indoor surfaces for multi-sports use – Specification
Date of Receipt of Test Item	23.11.2017
Date of Test:	starting 23.11.2017
Date of Report:	04.12.2017
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Enclosures :	2
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The test results relate only to the items tested.

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1 Purpose of Investigation

You commissioned us with testing of technical properties of a surface for sports areas according to DIN EN 14904 [1]. Therefore we received two PVC surface samples (size approx. 20 cm x 70 cm) labeled as follows:

Sample 1: „**PU Sealer mat**“

The treatment of the PVC sample with the surface sealant „**PU Sealer mat**“ was done according to manufacturers' instructions (product specification sheet dated 04.05.2017) in two layers with 50 ml/m² for each layer.

2 Testing procedure

The tests were carried out according to the procedures mentioned in DIN EN 14904 [1]. The test marked with  is an accredited test according to DIN EN ISO/IEC 17025, see DAkkS-certificate D-PL-11027-04-07).

The following properties according to DIN EN 14904 [1] were determined:

Linear friction, specular reflectance, specular gloss, resistance to wear.

3 Results of Investigation

In the following table the test results obtained are tabulated and compared to the requirements of DIN EN 14904 [1].


The single test results can be found in tables 2-5, enclosures 1-2.

Table 1: Summary of the test results according to DIN EN 14904 [1], sample 1 „PU Sealer mat“

Test acc. to EN xx described in DIN EN 14904 [1]	Test results		Requirements acc. to DIN EN 14904 [1]
Linear friction [■] (EN 13036-4:2011)	83	max. deviation -3 / +3	80 – 110 (max deviation of single value +/- 4 units of mean value)
Specular reflectance (EN 13745:2004)	19,3 %		- ¹⁾
Specular gloss (EN ISO 2813:1999)	44,5 %		≤ 45 % at 85° for painted sport floor coverings
Resistance to wear (EN ISO 5470-1:1999)	112,6 mg		≤ 1000 mg (H18 wheel; 1000 cycles; load 1000g)

-¹⁾ no requirements acc. to DIN EN 14904 [1] – result has to be reported

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