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70-em/kle/bla

Test Report Order No. 2716258 / Part 1

Client: Dr. Schutz GmbH
Steinbrinksweg 30
31840 Hessisch Oldendorf

Date of order: 13 September 2017

Order: Test of the electrostatic properties of a resilient floor with coverings coated with "ESD Top Coat"

Contractor: EPH – Laboratory Surface Testing

Engineer in charge: Dipl.-Ing. Detlef Kleber

Dr.-Ing. Rico Emmler

Head of Laboratory Surface Testing

The test report contains 9 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

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1 Task

The laboratory EPH was ordered by Dr. Schutz GmbH to determine different surface resistances and constant resistance of resilient floor with coverings coated with “ESD Top Coat” in a walking test according to DIN EN 61340-4-1, DIN EN 61340-4-5, DIN EN 61340-2-3 and ANSI/ESD STM7.1, ANSI/ESD S4.1. In addition, the suitability of the surface in ESA-areas should be tested according to DIN EN 61340-5-1/ ANSI S20.20 and explosive areas according to TRGS 727 or IEC TS 60079-32-1:2013.

2 Test Material

The client, Dr. Schutz GmbH, has sent 3 different samples of resilient floor with coverings coated with “ESD Top Coat” (thickness $d = 2.5 \text{ mm}$).

Sample		Description by the producer / article	Measurement position
A1	A1.1	ESD Top Coat, Sample1	left side
	A1.2		right side
A2	A2.1	ESD Top Coat, Sample 2	left side
	A2.2		right side
A3	-	ESD Top Coat, Sample 3	-

3 Requirements and measurement

3.1 Conditions for measurement

The test areas were conditioned 72 hours at drying atmosphere ($23 \text{ °C} \pm 2 \text{ K}$, $12 \% \pm 3 \%$ relative air humidity) and were tested in the same climate

3.2 Measuring Instruments

The following resistance test devices were used: “PRS 801” (OF-27, fabricate PROSTAT) used measuring range $1 \times 10^0 \dots 2 \times 10^{13} \text{ Ohm}$, measuring voltage 10 V and 100 V (measurement uncertainty $< 5 \%$, lower than statistical variance of the measurement values).