

## Laboratory report screening attenuation

### Test object

#### Shielding paint

**PRO54** with paint roller. Thick 4 m<sup>2</sup>/l + Thin 8 m<sup>2</sup>/l

### Test date

2021/06/01

### Guarantee

**We bindingly guarantee the shielding attenuation of a product with this laboratory report.** The measuring curves represent the mean value of all tested charges, within a tolerance range of +/- 2 dB.

### Place of test

Own professional EMC-laboratory according to international standards, for daily quality control and product development.

### Conformity

The measurement of the attenuation of electromagnetic waves from **600 MHz to 40 GHz** has been performed in close accordance with standards **IEEE Std 299™-2006** or **ASTM D4935-10**.

### Test setup

Measuring devices: Vector Network Analyzers Rohde & Schwarz **ZNB20** and **ZNB40** with a measuring dynamics up to 140 dB.

Antennas: For IEEE Std 299™-2006 **horn antennas** with horizontal/vertical polarisation inside and outside a test chamber. For ASTM D4935-10 **TEM cells** with radial polarisation.

**Test implementation** Irradiation with the power flux density  $S_1$ . Measuring the pervasive power flux density  $S_2$ . The shielding attenuation is a non-dimensional measured variable in deci-bels (dB):

$$\text{dB} = 10 \cdot \log_{10} \frac{S_1}{S_2}$$

dB	Dämpfung
10	90 %
20	99 %
30	99,9 %
40	99,99 %
50	99,999 %
60	99,9999 %
...	...

$$\text{dB} = 10 \cdot \log_{10} \frac{S_1}{S_2}$$

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