

YSHIELD® SIL54 | Shielding paint dispersion silicate | 5 liter

Minimalist formula without preservatives. Single-layer shielding 44 dB, double-layer shielding 53 dB. TÜV-SÜD certified.



SIL54 is our special shielding paint for interior use with a minimalist formula without preservatives. This paint has a coarse pigment size of 80 µm and forms a rather soft film. As a dispersion silicate paint, we recommend its use indoors on walls, ceilings, and floors. Due to its low acrylic content, it adheres well to problematic substrates. Apply with a paint roller. This paint is the right choice if you want to avoid preservatives and are willing to accept limitations in terms of application and hardness. **Technical data and information on application can be found in our technical data sheet above in the downloads section.**

TÜV-SÜD certification

We have all our shielding paints monitored by TÜV-SÜD. The test standard is TM-09 (testing for health-related ingredients and emissions, product and process monitoring, control of input materials). This means that this paint is **preservative-free, low-emission (VOC), plasticizer-free (SVOC), and solvent-free.** You can find the certificate above in the Downloads section.

Shielding attenuation HF & LF

This shielding paint shields high-frequency electromagnetic fields (HF) and has been tested from 600 MHz to 40 GHz in accordance with the IEEE Std 299-2006 standard. Since high frequencies at 40 GHz are not commonly used yet, the shielding attenuation values we specify always apply at 1 GHz.

At 4 sqm/l (thick coat): Single coat **44 dB** | Double coat **53 dB**

At 8 sqm/l (thin coat): Single coat **35 dB** | Double coat **44 dB**

This shielding paint with an electrically conductive surface **also shields low-frequency alternating electric fields (LF).**

Ready for 5G: Some companies offer "special" 5G shielding products. **This product shields 5G frequencies even without advertising!** In the shielding diagrams, you will find two gray bars with the 5G frequency spectra FR1 (600 MHz - 6 GHz) and FR2 (24 GHz - 40 GHz).

Laboratory & expert report of shielding attenuation up to 40 GHz

We have already invested in our **own professional EMV laboratory** years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an **independent, well-respected expert.** Double checked for twice the safety. **Please find the reports above at the downloads.**

Grounding

This product with an electrically conductive surface **has to be integrated into the functional-equipotential bonding (FEB).** Please find suitable grounding accessories under "Grounding".

Customers & Applications

Over one hundred thousand private customers have chosen our products to shield rooms and buildings from electrosmog. In the commercial sector, many well-known brand names place their trust in us: Adidas, Amazon, Apple, ASML, Airbus, Desigual, Disney, Esprit, Google, H&M, IBM, Inditex, Levis, Mango, Mercedes Benz, Microsoft, Nike, Siemens, and many more. **The applications are extremely diverse:** Protection of critical infrastructure (KRITIS), eavesdropping security (TEMPEST), shielding against strong electromagnetic pulses (EMP & HEMP), EMC laboratories, EMC protection of electronics, Industry 4.0, IT forensics, radar protection, data centers, research departments, development departments, hospitals.

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