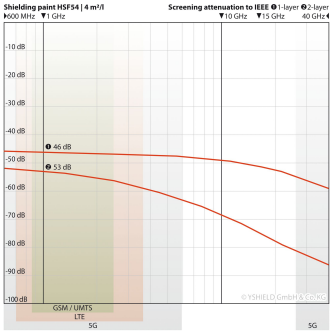
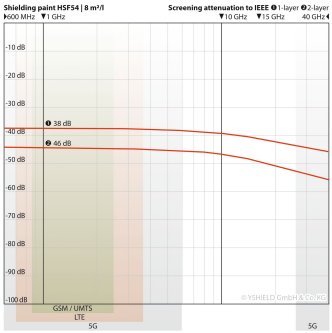
YSHIELD® HSF54 | Shielding paint market standard | 5 liter

Our best product with all-round properties. One paint for everything. Shielding single layer 46 dB, double layer 53 dB. TÜV-SÜD certified.

YSHIELD® HSF54





YSHIELD GmbH & Co. KG
94099 Ruhstorf, Germany
www.yshield.com
info@yshield.de

HSF54 is our best shielding paint for indoor and outdoor use, which has been setting the market standard for decades. This paint is very finely pigmented at 20 µm and forms a hard film. The high-end acrylic binder has outstanding adhesive strength on almost any surface in the construction sector, including wood, metal, and plastics. It can be applied with a paint roller, spray gun, airless sprayer, dip coating, screen printing, etc. **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-07 (testing for health-related ingredients and emissions, product and process monitoring, control of input materials). This means that this paint is **free of emissions (VOC), plasticizers (SVOC), solvents, and is highly breathable**. The TÜV guideline TM-07 is largely compatible with international standards from UL Greenguard, Intertek Clean Air, etc. according to LEED v4 and is therefore mutually recognizable. 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 **46 dB** | Double coat **53 dB**
At 8 sqm/l (thin coat): Single coat **38 dB** | Double coat **45 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). T

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.