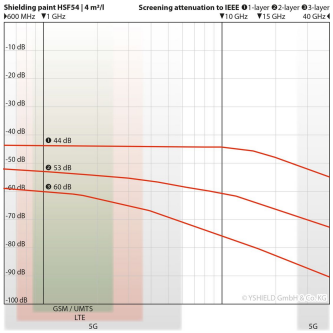
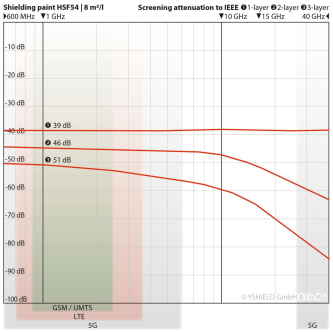
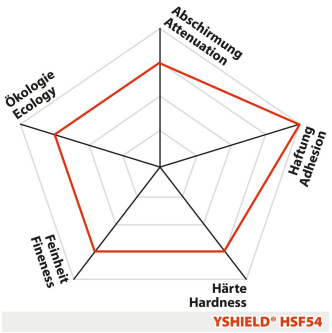
YSHIELD® HSF54 | Standard shielding paint | 1 liter

Standard paint with the best all-round properties – one paint suitable for everything. Up to 90 dB at 40 GHz. TÜV-SÜD certified.

YSHIELD® HSF54







YSHIELD® HSF54

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As shielding paint for rooms and buildings

Shielding paint for shielding high-frequency radiation (HF) and low-frequency electric fields (LF). Breathable, solvent-free, plasticizer-free and low-emission.

Standard paint with the best all-round properties – one paint suitable for everything. Up to 90 dB at 40 GHz. TÜV-SÜD certified. Extremely high shielding in all situations. Suitable for very difficult substrates due to its high adhesive tensile strength. This paint is very finely pigmented, very easy to process and forms a finely blended hard film. The HSF54 forms the most even surface out of all our shielding paints.

Screening attenuation

At a yield of 4 sqm/l:
At 1 GHz: Single layer **44 dB** | Double layer **53 dB** | Three layer **60 dB**
At a yield of 8 sqm/l:
At 1 GHz: Single layer **39 dB** | Double layer **46 dB** | Three layer **51 dB**

Underground

Excellent adhesion on almost all substrates interior and exterior.

Top coating

Preferably covered with plastic bonded water-based emulsion paints, dispersion silicate paints, facade paints or silicon resin paints.

Optional: Fiber additive AF3

For crack bridging and a better grounding we advise our fiber additive AF3 with long conductive carbon fibers.

Frost resistance

This product is frost resistant (proved for 5 frost-/thaw cycles) and can be shipped throughout the year by air cargo or ship.

Ingredients

Water, natural graphite, pure acrylics dispersion, carbon black, additives, preservative (BIT, INN, MIT).

Technical data

Please find detailled data in the table overview and the technical data sheet.

No nanotechnology

Our shielding paints are developed in accordance with strict ecological criteria. We use, for example, the carbon black with the lowest emission possible on the market and untreated natural graphite. **We consciously do not use graphene**, a nanomaterial where the hazard potential is still completely unknown.

TÜV-SÜD certification

We have our shielding paints monitored by TÜV-SÜD. The whole production process including quality control, emission behaviour and economical use of preserving agents is subject to monitoring. **Please find the certificate 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".

Shielding attenuation HF & LF

This product **shields high frequency electromagnetic fields (HF)**. Unless otherwise stated, the indicated dB-values apply to 1 GHz. Measurement from 600 MHz to 40 GHz according to standards ASTM D4935-10 or IEEE Std 299-2006.

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

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**.

Ready for 5G

Some companies offer "special" 5G-products. **This products shields all 5G-frequencies, even without advertising this!** Find two gray bars in all shielding diagrams with the 5G frequency spectrums FR1 (600 MHz – 6GHz) and FR2 (24 GHz – 40 GHz).