

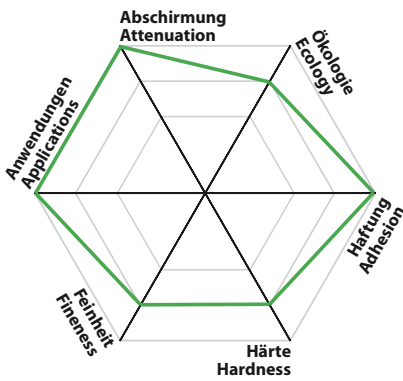
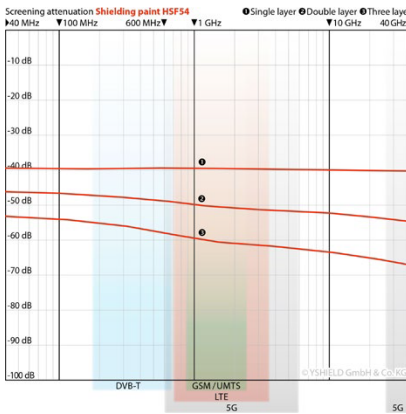
Paints  
 Sheet products  
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## HSF54 - Shielding paint (HF+LF)

### UNIVERSAL CLASSIC



YSHIELD® HSF54



### As shielding paint for rooms and buildings

Shielding paint for shielding high-frequency radiation (HF) and low-frequency electric fields (LF).

**Our best-selling product, proven tens of thousands of times. One paint for all if you cannot decide. Improved again 2019.**

Breathable, solvent-free, plasticizer-free and low-emission. With phenomenal physical and chemical properties, along with high ecology.

#### 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.

#### Grounding

Must be grounded! We recommend interior the **grounding strap EB2** plus **grounding plate GW**, exterior the **fiber additive AF3** plus the **grounding plate GE**.

#### Optional: Fiber additive AF3

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

### As coating in technical applications

With the fine pigmentation of 50 ! m, high film hardness, good substrate wetting, high adhesive tensile strength and newtonian rheology ... our customers discovered **more and more technical applications** through the years:

Technical shielding of parts, devices, machines or facilities. Manufacturing of absorber materials, pressure sensors, screen printing on heating films or gypsum boards.

#### Screening attenuation

Single layer **39 dB**  
 Double layer **49 dB**  
 Three layer **59 dB**

#### 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 detailed data in the table overview and the technical data sheet.

#### Ready for 5G

Our shielding paints have an almost linear screening attenuation for a very large frequency range including both 5G frequency spectrums FR1 (600 MHz - 6 GHz) and FR2 (24 GHz - 40 GHz).

#### Safety up to 40 GHz

We have a professional EMC-laboratory according to various standards up to 40 GHz on site. You'll find the measuring curves and reports from 40/600 MHz - 40 GHz in the internet on the corresponding product pages.

#### No nanotechnology

Our shielding paints are developed in accordance with strict ecological criteria. We use 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.

**Pollutant tested building materials**

- Testing of health-related contents and emissions
- Regularly product and process monitoring
- Control of the raw materials

www.tuev-sued.de/boekologische-produktpruefung