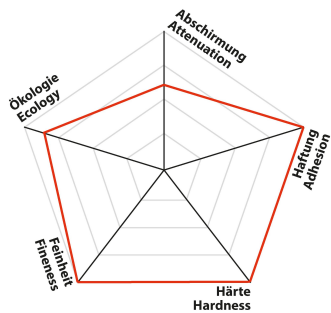
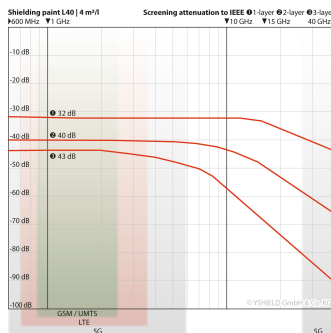


# YSHIELD® SAFEBUILD L40 | Our universal shielding paint | 1 liter

Universal shielding paint for room and building shielding and for technical applications. No more staining! Up to 90 dB at 40 GHz. TÜV-SÜD certified.



YSHIELD® SAFEBUILD® L40



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YSHIELD® SHIELDING PAINTS

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After years of research, we have developed a revolutionary new formula that prevents graphite from smearing or staining: **Our SAFEBUILD L40 shielding paint is equally suitable for room and building shielding and for technical applications. SAFEBUILD L40 is finely pigmented and forms a hard, abrasion-resistant film that does not graphitize or smear. Universal adhesion on almost all substrates. Up to 90 dB at 40 GHz.**

## Our SAFEBUILD L40 shielding paint in detail

- **40 dB shielding attenuation at 1 GHz processed in two layers** is absolutely sufficient for most applications.
- No **graphitization**, no smearing and greatly reduced discoloration of the surface. Top coats adhere much better.
- Very high **film hardness** and abrasion resistance for highly stressed surfaces. Can now be coated with water-based lacquer.
- Fine **pigmentation** with d90 less than 40 µm; can therefore also be sprayed in technical applications.
- Universal **adhesion** even on difficult and low-energy substrates.
- Improved **settling behavior** for easy stirring after long storage.
- Optimized **freeze-thaw resistance** after freezing during shipping.
- Optional **fiber additive AF3**: For crack bridging for better grounding, we recommend our fiber additive AF3 with long conductive carbon fibers.
- Details on technical data and processing can be found in the **technical data sheet** at the top right.
- **TÜV-SÜD certified**: The certificate for "Building materials tested for harmful substances" guarantees you as a customer that the product does not contain any ingredients or emissions relevant to health. According to guideline TM-07, this product is solvent-free, plasticizer-free, without fogging-active substances, without heavy metals and very low in emissions.

## Shielding attenuation

With a coverage of 4 sqm/l: Single layer **32 dB** | double layer **40 dB** | triple layer **43 dB**

## No nanotechnology

Our shielding paints are developed according to strict ecological criteria. For example, we use the lowest-emission carbon black on the market and pure graphite. **We deliberately avoid the use of graphene or even newer nanoplatelets, nanomaterials with a completely unclear hazard potential.**

## 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).