

YSHIELD® DRY54 | Special shielding paint | Powder for 5 liter

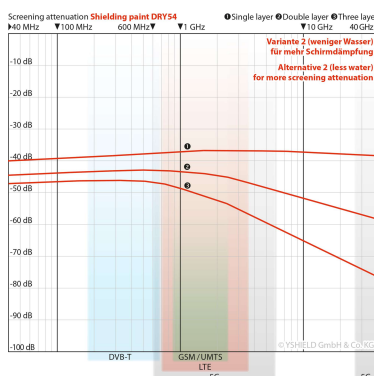
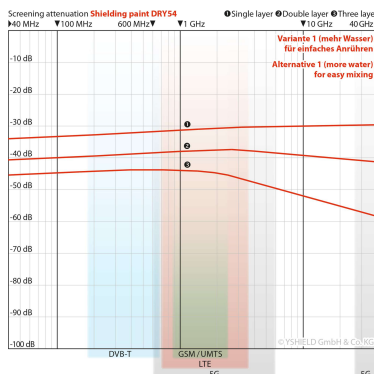
Special paint with great all-round characteristics - delivered as a powder. Up to 75 dB. Up to now our best powder paint to the best price.



YSHIELD® DRY54



YSHIELD® DRY54 | More water



As shielding paint for rooms and buildings

Shielding paint for shielding high-frequency radiation (HF) and low-frequency electric fields (LF). **Special paint with great all-round characteristics - delivered as a powder. Up to now our best powder paint to the best possible price!** Breathable, plasticizer-free, low-emission and without a preservation agent. With very good physical and chemical properties, along with very high ecology.

We first produced a powder paint in 2003, but liquid paints become the established ones. The reason for this was the low performance of an electric screwdriver which was not sufficient for the ingredients that needed to be dispersed - in our production we need more than 100,000 Watt for a professional result. **After a longer development time we have now found the perfect formula for powdered shielding paints.**

Special characteristics DRY54:

- This powder shielding paint can be mixed up with more or less water
- **When using alternative 1 (more water)**, the paint stays **nearly as liquid as water while mixing - the dust formation is extremely limited**, as the powder blends immediately with the water. The paint becomes thicker after 15 minutes resting time - it can be perfectly painted with afterwards and you will get a nice flow for an even shielding.
- **When using alternative 2 (less water)**, the paint **gets paste-like**. Formation of dust and amount of work are higher, the finished amount of paint is approx. 17 % less. **The advantage is a 6 dB higher shielding attenuation**. The paint becomes as thick as a usual dispersion paint after 15 minutes resting time and can be painted as well as a dispersion paint.
- The **phenomenal price-performance-ratio** is achieved, as the DRY54 only costs half as much as our liquid paints. That is why you can paint two times for the same costs.
- **The powder gets bagged and then vacuum-packed three times**. Vacuum-packed into one another, using three bags - that is why no moisture will get into the powder, even years later.
- The powder needs to be mixed with water - what you will need to do so: Digital scales, protective mask, safety glasses, our paint stirrer AR42 or AR84, a bucket for mixing, a drilling machine (electric screwdriver) and 15-30 minutes of your time.

General advantages of powder paints:

- Has a very long shelf life without water
- No preservatives necessary
- Reduced risk of frost damages
- 50-80 % less plastic waste
- Less delivery costs (up to 60 %)
- More security during transit in case of packaging damages
- Small partial quantities can be taken out of the bag for necessary repair works

Screening attenuation

Variation 1 (more water):

At 1 GHz: Single layer **31 dB** | Double layer **38 dB** | Three layer **44 dB**

At 40 GHz: Single layer **30 dB** | Double layer **44 dB** | Three layer **58 dB**

Variation 2 (less water):

At 1 GHz: Single layer **37 dB** | Double layer **43 dB** | Three layer **48 dB**

At 40 GHz: Single layer **38 dB** | Double layer **57 dB** | Three layer **75 dB**

Grounding

Must be grounded! We recommend interior the grounding strap GSX plus grounding plate GS / GF, exterior the fiber additive AF3 plus the grounding plate GF4.

Frost resistance

This product is delivered as a powder and thus frost resistant.

Ingredients

Untreated natural graphite, carbon black, pure acrylics powder, additives, no preservative agent.

Technical data

Please find all technical data and the application details in our technical data sheet.

Ready for 5G

As we keep on developing our paints, they now have an almost linear shielding attenuation for a very large frequency range. This frequency range has already been including both 5G frequency spectrums for quite some time: **FR1 (600 MHz - 6 GHz) and FR2 (24 GHz - 40 GHz)**.

Safety up to 40 GHz

We already invested in our own professional EMV laboratory many years ago, as external laboratories in the USA and elsewhere could no longer fulfil our increasing expectation to a 140 dB measuring Attenuation at 1/40 GHz. Expert reports, certifications, data sheets, weight, sizes, GFM, CCO, TARIFF, etc. on our website.

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dynamics and 40 GHz. We not only issue our own shielding reports therein but also check each and every batch for your security on a daily basis. You receive measuring curves and laboratory reports up to 40 GHz with each of our shielding products, by which we **bindingly guarantee the shielding effectiveness**.

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.