

High+low frequency



- for large-area shielding of high-frequency electromagnetic waves, low-frequency alternating electric fields and dissipation of static charges
- very good price-performance ratio with slightly less shielding effectiveness and adhesive strength compared to our HiFreq Premium Fluid Shielding Paint
- powder form for easy stirring with water
- very long storage life of approx. 5 years
- very low-emission shielding paint for indoor use
- metal-free, physically extremely stable, durable and non-oxidising, frost-resistant
- high water resistance, elastically soft
- Highly electrically conductive wall coating based on synthetic resin. The paint is vapour diffusible and contains no solvents, plasticisers, low-volatile organic compounds, formaldehyde or ammonia.

HiFreq Standard Powder adheres well to most non-greasy and load-bearing surfaces indoors and can be easily painted or wallpapered over.

Painting over existing wallpaper is advisable if the shielding surface is to be removed without leaving any residue in the foreseeable future.

Possible top coats:

- plastic-bonded dispersion paints Dispersion
- silicate paints (KEIM - Ecosil, Biosil, Optil)
- clay paints: Volvox clay paint
- lime paints: Haga lime paint

Top coats only with prior test:

- mineral coatings

Order-No.: 201077

Short-Desc.: HiFreq-Standard-Powder - 3 litre

Required accessories



Ground strap (AEB)



Grounding plate (EGP)

Shielding paint (HF+LF)

HiFreq-Standard-Powder - 3 litre

Type	MHz	dB1	dB2	dB3
DVB-T2	470 - 690	33	39	44
LTE / 5G wide	700 - 750	33	40	44
GSM, LTE	920 - 960	34	40	45
GSM, LTE	1800 - 1880	34	40	45
DECT	1880 - 1900	34	40	45
LTE, 5G wide	2110 - 2170	34	40	46
W-LAN 2400	2400 - 2500	33	40	46
5G fast	3400 - 3600	32	40	46
W-LAN 5200	5150 - 5350	31	39	47

dB1-single layer - dB2-double layer - dB3-triple layer -- [4 sqm per litre]

Technical data

package size:	3 litre (Powder + 2 litre water)
colour:	black
SD-value: (DIN EN ISO 7783-2)	0,1 m
pH-value:	7,8
adhesive tensile strength:	2,8 N / mm ²
viscosity:	1000 mPas
density:	1,2 kg/litre
composition: binder:	water, natural graphite, pure acrylic dispersion, carbon black, additive VOC: < 0,2 g/l
efficiency:	4 sqm / litre 8 sqm / litre
surface:	load-bearing, non-greasy surfaces, MFT 5 °C
further processing: at temperature:	after approx. 24 hours ab 5 °C
durability:	60 months / 5 years (cool, frost-free (> 5 °C), avoid direct sunlight).
frost resistance:	> 5 cycles
basis of examination:	IEEE Standard 299™-2006
fire behaviour:	DIN EN 13501-1
shielding attenuation: 4 sqm per litre	max. 40 dB (single layer) max. 52 dB (double layer) max. 73 dB (triple layer)
shielding attenuation: 8 sqm per litre	max. 32 dB (single layer) max. 42 dB (double layer) max. 50 dB (triple layer)

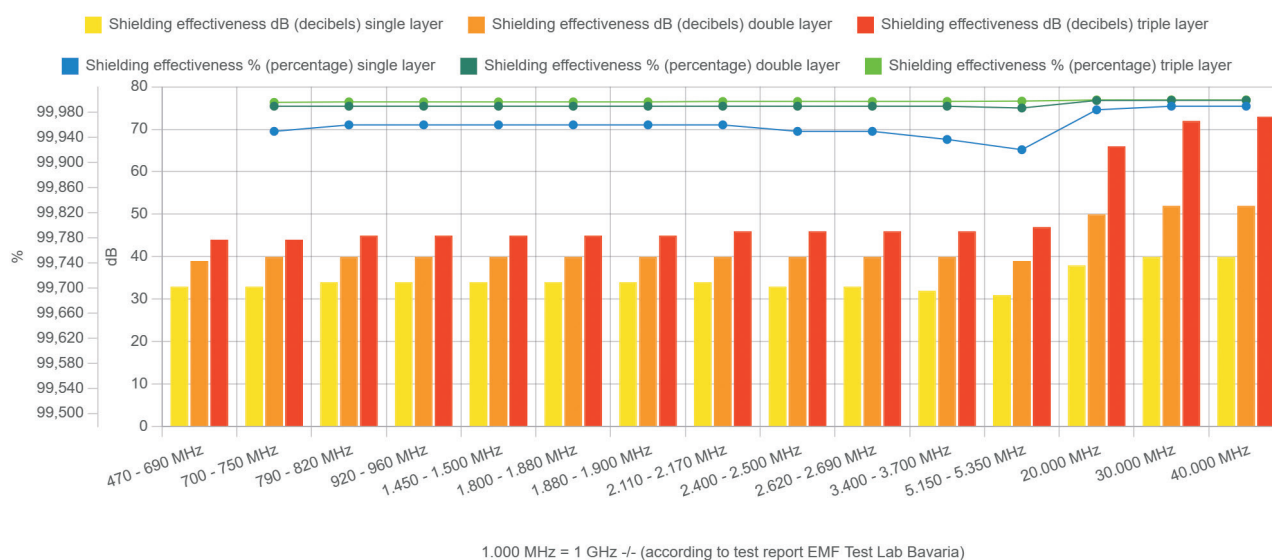
Scope of application

roof, ceiling and wall areas inside

Art	MHz	Beschreibung
DVB-T2	470 - 690	digital video broadcasting – terrestrial, 2nd generation, TV via antenna
LTE / 5G wide	700 - 750	from 4G, now 5G NR without beamforming / MIMO
GSM, LTE	920 - 960	from 2G - D1, now 5G NR without beamforming / MIMO
GSM, LTE	1800 - 1880	from 2G - D2, E network, now 5G NR without beamforming / MIMO
DECT	1880 - 1900	wireless phone
LTE, 5G wide	2110 - 2170	from 3G, formerly UTMS, now 5G NR without beamforming / MIMO
W-LAN / WiFi 2400	2400 - 2500	wireless LAN
5G fast	3400 - 3700	5G NR - new frequency band with beamforming / MIMO
W-LAN / WiFi 5200	5150 - 5350	wireless LAN

Shielding values according to test report: EMF Test Lab Bavaria

Shielding effectiveness - HiFreq-Standard-Powder - 4 sqm per Litre - 470 MHz to 40.000 MHz (40 GHz)



Shielding effectiveness - HiFreq-Standard-Powder - 8 sqm per Litre - 470 MHz to 40.000 MHz (40 GHz)

