

High+low frequency



- for large-area shielding of high-frequency electromagnetic waves, low-frequency alternating electric fields and dissipation of static charges
- best price-performance ratio with the optimised high-frequency shielding paint HiFreq-Standard-Liquid with coarser pigmentation, slightly less tensile adhesion and, compared to the Biologa Danell shielding paint HiFreq-Premium-Liquid, a shielding effect in the midfield
- very good spreadability due to thinner quality
- 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 Liquid 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.

The shielding paint HiFreq Standard Liquid can be overpainted very well with e.g. plastic-bonded emulsion paints, but also with various other topcoats. Simply carry out a test with your chosen top coat.

Order-No.: 201078

Short-Desc.: HiFreq-Standard-Liquid 5 litre

Required accessories



Ground strap (AEB)



Grounding plate (EGP)

Shielding paint (HF+LF)

HiFreq-Standard-Liquid - 5 litre

Type	MHz	dB1	dB2	dB3
DVB-T2	470 - 690	38	44	49
LTE / 5G wide	700 - 750	39	45	49
GSM, LTE	920 - 960	40	45	49
GSM, LTE	1800 - 1880	40	43	50
DECT	1880 - 1900	40	43	50
LTE, 5G wide	2110 - 2170	40	43	51
W-LAN 2400	2400 - 2500	40	43	52
5G fast	3400 - 3600	38	43	53
W-LAN 5200	5150 - 5350	37	44	55

dB1-single layer - dB2-double layer - dB3-triple layer

Technical data

package size:	5 litre
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: 0,18 g/litre
conservation substance:	BIT, INN, MIT
efficiency:	4 m ² / litre 8 m ² / litre
surface:	load-bearing, non-greasy surfaces, MFT 5 °C
further processing: at temperature:	after approx. 24 hours from 5 °C
durability:	12 months
frost resistance:	~ 5 cycles
test basis:	IEEE Standard 299™-2006
fire resistance:	DIN EN 13501-1
shielding attenuation: 4 m ² per litre	max. 42 dB (single layer) max. 65 dB (double layer) max. 79 dB (triple layer)
shielding attenuation: 4 m ² per litre	max. 32 dB (single layer) max. 42 dB (double layer) max. 50 dB (triple layer)

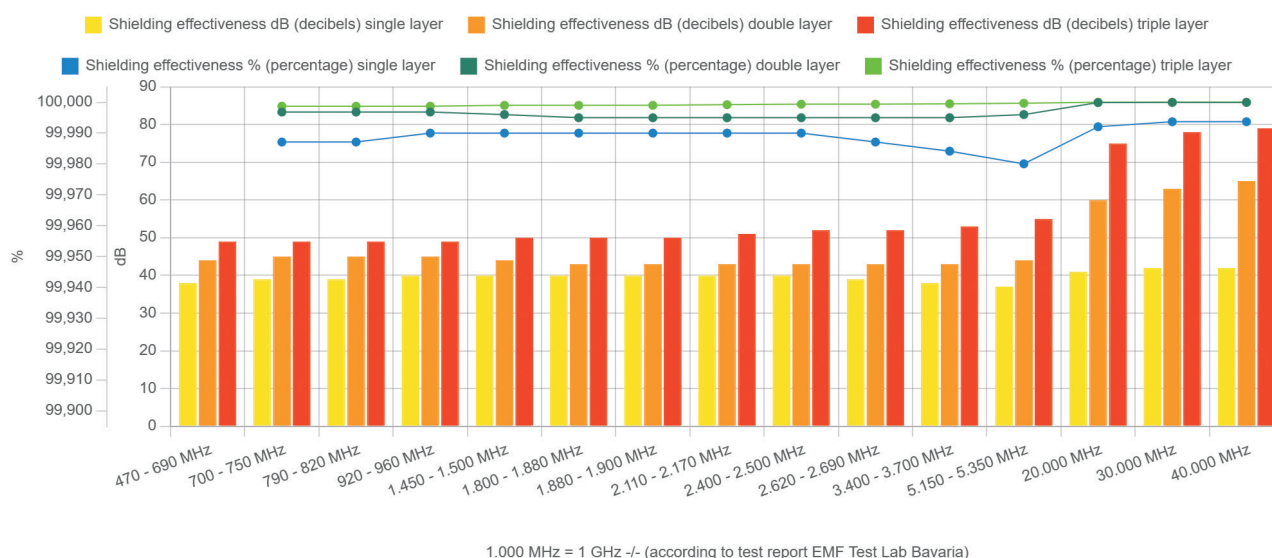
Scope of application

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-Liquid - 4 sqm per Litre - 470 MHz to 40.000 MHz (40 GHz)



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

