

58954 Plastorit® 00

Plastorit® is an intergrowth of different minerals. Mica is a flaky silicate, chlorite slate is a scale-formed mineral (chemically between mica and talcum), and quartz forms hard cubic granules. These three highly temperature-resistant minerals appear in a natural mixture. The soft elastic mica plates reflect the UV-rays. The soft chlorite scales are hydrophobic. The cubic quartz particles, which make up for about half of the mineral, are readily dispersible and hard. This naturally grown mineral has unique properties as filler.

Plastorit® improves the surface hardness and abrasion resistance, avoids the precipitation of the filler or whitening, and only requires very little binder.

Plastorit® 00 (58954) is used for wall paints and as filler.

Lightness

Minolta CR-300,	Y	79.5
Kind of light D65/2	CIE L	91.4
	a	-0.5
	b	3.4

Particle size distribution:

Sieving residue:	> 15 µm	0.3 %
Mean particle size: (Sedigraph 5100)	d50	14.2 µm

Mineralogy

Mica / Quartz / Chlorite:		100 %
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Chemical Analysis

Colimetry atom absorption spectrometry:	SiO ₂	64.0 %
	MgO	10.0 %
	Al ₂ O ₃	16.5 %
	Fe ₃ O ₃	2.5 %
	K ₂ O	2.0 %
	Loss on ignition at 1050°C:	4.5 %
	Humidity (105°C) ISO 787/2:	≤ 0.5 %

Specific Surface

BET (DIN 66131/2):	3.0 m ² /g
Blaine:	7300

Physical Data

Density:	ISO 787/10	2.78 g/cm ³
Apparent density:	ISO 787/10	1.1 g/cm ³
Bulk density:	EN 1097/3	0.8 g/cm ³
Mica/Chlorite:	Mohs hardness	2
Quartz:		7
pH-Value:	ISO 787/9	9.5
Oil value:	ISO 787/5	27 ml/100 g