



synres-almoco bv

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Tentative

PiMC 1949 Granite colours

PiMC is a Powder in-Mould Coating designed to improve the surface quality, durability and aesthetic appearance of SMC/BMC products. The PiMC is electro statically sprayed onto the heated mould surface just prior to the moulding of SMC/BMC.

The PiMC 1949-series of granite colours were specially developed to give SMC/BMC parts the exclusive appearance of natural stone.

Examples of (possible) applications are sanitary products and wall claddings.

Powder properties		Unit	Test method	Typical value
Particle size distribution Malvern method	D 0.1	µm	SATP-114	10 – 25
	D 0.5	µm	SATP-114	50 – 75
	D 0.9	µm	SATP-114	100 – 175
Brabender cycle time	150 °C	s	SATP-104	75 – 115
Powder stability	30 °C	h	SATP-128	> 8
Storage temperature		°C	-	< 20
Shelf life		Month	-	6
Density		kg/ltr	-	1.3 – 1.5
Bulk density		kg/ltr	-	0.6 – 0.7

Coating properties		Unit	Test method	Typical value
Gloss	20 °	%	-	50
	60 °	%	-	75
	85 °	%	-	90
Scratch resistance		N	DIN 53799	> 2
Taber abrasion S42 paper; 500 g load	500 turns	g	DIN 53799	< 0.5
Falling ball impact	125 cm	Visual	DIN 53799	No damage
Water vapor resistance		Visual	DIN 53799	No changes
Chemical resistance	Acid	Visual	ISO 175	Good
	Alkaline	Visual	ISO 175	Moderate
	Solvent	Visual	ISO 175	Good
Flexural strength		MPa	ASTM D-790	30 – 60
Flexural modulus		GPa	ASTM D-790	5 – 10
Elongation at break		%	ASTM D-790	2 – 5

SATP = Synres Almoco Testing Procedure (details available on request)

All statements herein are expressions of opinion, which we believe to be accurate and reliable, but are presented without guarantee or responsibility on our part, nor freedom from any patent to be inferred.

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