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## PiMC 1221: High gloss

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.

PiMC 1221 is characterized by its improved weathering- and UV-resistance. It is therefore particularly suited for outdoor applications.

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 °	%	-	55
	60 °	%	-	82
	85 °	%	-	93
Scratch resistance		N	DIN 53799	> 2
Taber abrasion S42 paper; 500 g load	500 turns	g	DIN 53799	< 0.5
Stone chip resistance		Class	VDA	3
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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