

Zinc Phosphate PZ20

ZINC PHOSPHATE TETRAHYDRATE, $Zn_3(PO_4)_2 \cdot 4H_2O$



Description

PZ20 is a corrosion inhibiting pigment suitable for a wide range of applications, from DIY to more demanding ones such as coil coating. It is a stable and non-hygroscopic white powder with a low tinting strength, it is easily dispersed. Thanks to its low solubility, **Zinc Phosphate PZ20** is compatible with a wide range of solvent and water based resins.

Technical data

	Nominal Value	Tolerance (+/-)	
Zn content (%) - on the ignited product	50.0	2.0	ICP
PO ₄ content (%) - on the ignited product	48.0	2.0	ICP
Oil absorption (cm ³ /100 g)	27	5	ISO 787/5
Sieve residue - 45 µm (%)	0.05	max	ISO 787/7
pH	6.5	1.0	ISO 787/9
Specific gravity	Typ. 3.3		ISO 787/10
D50 (µm)	Typ. 4.5		Laser granulometry
Fineness	North	Typ. 7	ISO 787/5
	Hegman	Typ. 5.5	ISO 1524
Bonded water content (%) - 1h at 600°C	Typ. 15.7		Gravimetry

Recommended shelf life: 5 years

Formulators Guidelines

Solvent Based

	Performance
Short oil alkyd	★★★
Medium/long oil alkyd	★★
High solid epoxy	★★
2K epoxy	★★
Epoxy ester	★★
PU	★★

Best performances are obtained with a typical loading of 5 to 12% by weight on the total formulation and a PVC ranging from 20% to 40%

Water Based

Water reducible resin	★★
Alkyd emulsion	★★
Epoxy ester	★★
2K epoxy	★★
Acrylics/modified acrylics	★★

Specialty coatings

Wash primer	★
Coil coating	★★★★*
Powder coating	

Excellent: ★★★ Good: ★★ Possible: ★ Not yet tested: ____
Not recommended: nr * : Normally used in association with other pigments (ex: ion exchanged Silica)

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L'ANTICORROSION

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