

PHOSPHINAL PZ04

ZINC ALUMINIUM PHOSPHATE

$Zn_3Al(PO_4)_3 \cdot x H_2O$, [x from 4 to 8]

PZ04 0516G

MODIFIED ZINC
PHOSPHATE



Description

Phosphinal PZ04 is a Zinc Aluminium Phosphate developed to give higher and longer anticorrosion performance to the epoxy coatings than standard Zinc Phosphate. It is a stable and non-hygroscopic white powder with a low tinting strength, it is easily dispersed.

PHOSPHINAL PZ04 is suitable for a wide range of solvent and water based resins. This pigment is specifically adapted to Epoxy resins.

Technical data

	Nominal Value	Tolerance (+/-)	
Zn content (%) - on the ignited product	41.5	3.5	ICP
PO ₄ content (%) - on the ignited product	47.0	min	ICP
Al content (%) - on the ignited product	4.5	1.0	ICP
Oil absorption (cm ³ /100g)	35	5	ISO 787/5
Sieve residue - 45 µm (%)	0.05	max	ISO 787/7
pH	6.8	1.0	ISO 787/9
Pb Content (ppm)	100	max	ICP
Cd Content (ppm)	100	max	ICP
Density (g/ml)	Typ. 2.7		ISO 787/10
D50 (µm)	Typ. 5		Laser granulometry
Fineness	North	Typ. 6	ISO 787/5
	Hegman	Typ. 5	ISO 1524
Loss on Ignition (%) - 1h at 600°C	Typ. 18.0		Gravimetry
Recommended shelf life: 5 years			

Formulators Guidelines

Solvent Based

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

Best performances are obtained with a typical loading of 5 to 12% by weight on the total formulation.

Water Based

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

Specialty coatings

Wash primer	nr
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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