

PRODUCT DESCRIPTION

organically modified basic zinc orthophosphate hydrate

HEUCOPHOS® ZPO shows excellent protective behaviour in many binder systems, such as alkyd resins and physically drying systems, due to its special organic modification fixed on the particle surface.

TECHNICAL DATA

Zinc as Zn [%]	55.5 - 58.0	ISO 6745
Phosphorous as PO ₄ ³⁻ [%]	37.5 - 39.5	ISO 6745
Organic content [%]	typ. 0.3	
Loss on ignition 600°C [%]	7.0 - 11.0	ISO 6745
Water-soluble chloride [%]	max. 0.025	acc. to ISO 787, Part 13
Water-soluble sulphate [%]	max. 0.05	acc. to ISO 787, Part 13
Conductivity [μS/cm]	max. 300	ISO 787, Part 14
pH	6.5 - 7.5	ISO 787, Part 9
Lead as Pb [ppm]	max. 10	ICP
Cadmium as Cd [ppm]	max. 10	ICP
Density [g/cm ³]	typ. 3.6	ISO 787, Part 10
Bulk density, untamped [g/cm ³]	typ. 0.5	acc. to ISO 787, Part 11
Bulk density, tamped [g/cm ³]	typ. 1.0	acc. to ISO 787, Part 11
Oil absorption value [g/100g]	typ. 20	ISO 787, Part 5
Sieve residue 32 microns [%]	max. 0.01	acc. to DIN 53 195
Average particle size [microns]	2.0 - 3.5	Coulter Multisizer 3

APPLICATION PROFILE

Solvent based coatings	
Short and medium oil alkyds	+++
Long oil alkyds	
High solids alkyds	++
Epoxies	+
Epoxyesters	++
High solids epoxies	+++
Polyurethanes	
High solids polyurethanes	
Moisture cured polyurethanes	
Silicone resins	+++
Water based coatings	
Alkyd emulsions	++
Epoxy dispersions	
1-part polyurethanes	+
2-part polyurethanes	
Silicone resins	+++
Acrylics and modified acrylics	+
Butadienes	+++
Specialty coatings	
Coil coatings	
Aircraft primers	
Wash and shop primers	+
Direct to metal one coat	+++
UV cured systems	
Powder coatings	

LEGEND

Excellent choice	+++	■ Additionally recommended in combination with HEUCORIN® RZ/FR
Good choice	++	
Possible choice	+	

■ Resins with low or no VOCs

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