

Product Description

Chemical characterization	Organically modified zinc orthophosphate hydrate
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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

	Unit	Value	Test Method
Zinc as Zn	[%]	55.5 - 58.0	acc. to ISO 6745
Phosphorous as PO ₄ ³⁻	[%]	37.5 - 39.5	acc. to ISO 6745
Organic content	[%]	typ. 0.3	
Water-soluble chloride	[%]	max. 0.025	acc. to ISO 787-13
Water-soluble sulphate	[%]	max. 0.05	acc. to ISO 787-13
Lead as Pb	[ppm]	max. 10	ICP-OES
Cadmium as Cd	[ppm]	max. 10	ICP-OES
Loss on ignition 600 °C	[%]	7.0 - 11.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 300	acc. to ISO 787-14
pH value		6.5 - 7.5	acc. to ISO 787-9
Density	[g/cm ³]	typ. 3.6	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.5	
Tamped density	[g/cm ³]	typ. 1.0	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 20	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.0 - 3.5	acc. to ISO 13319

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Application Profile			
Solvent based coatings			
Short and medium oil alkyds	+++		●
Long oil alkyds			
High solids alkyds	++	✓	
2K Epoxies	+		
Epoxy esters	++		●
High solids epoxies	+++	✓	●
2K Polyurethanes			
High solids polyurethanes		✓	
Moisture cured polyurethanes			
Silicone resins	+++		
Water based coatings			
Alkyd emulsions	++	✓	●
2K Epoxies		✓	
1K Polyurethanes	+	✓	●
2K Polyurethanes		✓	
Silicone resins	+++	✓	
Acrylic and modified acrylics	+	✓	
Butadiens	+++	✓	
Specialty coatings			
Coil coatings			
Aircraft primers			
Wash and shop primers	+		
Direct to metal	+++		
UV cured systems		✓	
Powder coatings		✓	

+++ Excellent choice

++ Good choice

+ Possible choice

✓ Resin with low or no VOCs

● Additionally recommended in combination with HEUCORIN® RZ

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