

Product Description

Chemical characterization	Zinc aluminium polyphosphate hydrate
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HEUCOPHOS® ZAPP is a zinc aluminium polyphosphate hydrate with improved electrochemical activity. HEUCOPHOS® ZAPP is an effective and versatile anti-corrosive pigment for different binder systems.

Technical Data

	Unit	Value	Test Method
Zinc as ZnO	[%]	28.0 - 31.0	acc. to ISO 6745
Aluminium as Al ₂ O ₃	[%]	11.0 - 13.0	Complexometric titration
Phosphorous as P ₂ O ₅	[%]	46.0 - 49.0	acc. to ISO 6745
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	[%]	8.0 - 12.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 100	acc. to ISO 787-14
pH value		5.5 - 6.5	acc. to ISO 787-9
Density	[g/cm ³]	typ. 2.8	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.3	
Tamped density	[g/cm ³]	typ. 0.6	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 35	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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