

Product Description

Chemical characterization	Organically modified calcium orthophosphate
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HEUCOPHOS® ACP is a zinc-free anti-corrosive pigment for the application in protective coatings.

Technical Data

	Unit	Value	Test Method
Calcium as Ca	[%]	37.5 - 39.5	Complexometric titration
Phosphorous as PO ₄ ³⁻	[%]	51.0 - 54.0	acc. to ISO 6745
Silicone as SiO ₂	[%]	typ. 3.5	acc. to ISO 3262-17
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	[%]	4.5 - 9.5	acc. to ISO 6745
Conductivity	[µS/cm]	max. 350	acc. to ISO 787-14
pH value		7.5 - 10.5	acc. to ISO 787-9
Density	[g/cm ³]	typ. 2.9	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.2	
Tamped density	[g/cm ³]	typ. 0.4	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 60	acc. to ISO 787-5
Sieve residue 32 µm	[%]	max. 0.01	acc. to ISO 787-7
Average particle size	[µm]	2.5 - 4.0	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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