

PRODUCT DESCRIPTION	
<i>zinc aluminium orthophosphate hydrate</i>	
HEUCOPHOS® ZPA has a higher phosphate content than zinc phosphate. The absence of basic components in the pigment makes HEUCOPHOS® ZPA a versatile anti-corrosive pigment for many applications.	

TECHNICAL DATA		
Zinc as Zn [%]	38.5 - 40.5	ISO 6745
Aluminium as Al [%]	4.0 - 5.5	Complexometric titration
Phosphorous as PO ₄ ³⁻ [%]	53.0 - 56.0	ISO 6745
Loss on ignition 600°C [%]	9.0 - 12.5	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	5.5 - 6.5	ISO 787, Part 9
Lead as Pb [ppm]	max. 10	ICP
Cadmium as Cd [ppm]	max. 10	ICP
Density [g/cm ³]	typ. 2.8	ISO 787, Part 10
Bulk density, untamped [g/cm ³]	typ. 0.3	acc. to ISO 787, Part 11
Bulk density, tamped [g/cm ³]	typ. 0.6	acc. to ISO 787, Part 11
Oil absorption value [g/100g]	typ. 40	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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