HEUCOPHOS® CAPP

Product Description	
Chemical characterization	Calcium aluminium polyphosphate silicate hydrate

HEUCOPHOS® CAPP gives good results in water based two-part epoxy resins and coating systems based on dispersions.

Technical Data			
	Unit	Value	Test Method
Calcium as CaO	[%]	26.5 - 29.5	Complexometric titration
Aluminium as Al_2O_3	[%]	6.0 - 8.0	Complexometric titration
Phosphorous as P_2O_5	[%]	24.5 - 27.5	acc. to ISO 6745
Silicone as SiO_2	[%]	28.5 - 31.5	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	[%]	6.0 - 9.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 150	acc. to ISO 787-14
pH value		6.0 - 9.0	acc. to ISO 787-9
Density	[g/cm³]	typ. 2.6	acc. to ISO 787-10
Bulk density	[g/cm³]	typ. 0.3	
Tamped density	[g/cm³]	typ. 0.7	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]	2.5 - 4.0	acc. to ISO 13319

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HEUBACH GmbH • P.O. Box 1161 • 38679 Langelsheim • Germany • Phone +49-5326-52-0 • Fax +49-5326-52-213 •

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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