HEUCOPHOS® SAPP

SUDARSHAN

Product Description

Chemical characterization	Strontium aluminium polyphosphate hydrate

HEUCOPHOS® SAPP is suited for application, for example, in two-part epoxy coating systems. Its electrochemical activity in combination with improved long-term protection offers advantages for a wide range of high performance coatings, like coil coatings.

Technical Data

	Unit	Value	Test Method
Strontium as SrO	[%]	23.5 - 30.0	ICP-OES
Phosphorous as P_2O_5	[%]	43.5 - 48.0	acc. to ISO 6745
Aluminium as Al_2O_3	[%]	10.5 - 13.5	Complexometric titration
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	[%]	9.5 - 15.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 1400	acc. to ISO 787-14
pH value		4.5 - 6.0	acc. to ISO 787-9
Density	[g/cm³]	typ. 2.8	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. 40	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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