

Product Description

Chemical characterization	Zinc calcium strontium aluminium orthophosphate silicate hydrate
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WSA - Wide Spectrum Anticorrosive for application in both conventional and, in particular, modern resin systems.

Technical Data

	Unit	Value	Test Method
Zinc as ZnO	[%]	35.5 - 39.0	acc. to ISO 6745
Calcium as CaO	[%]	13.0 - 16.0	Complexometric titration
Strontium as SrO	[%]	4.0 - 6.0	ICP-OES
Aluminium as Al ₂ O ₃	[%]	2.0 - 4.0	ICP-OES
Phosphorous as P ₂ O ₅	[%]	16.5 - 19.5	acc. to ISO 6745
Silicone as SiO ₂	[%]	14.0 - 17.0	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	[%]	5.5 - 10.0	acc. to ISO 6745
Conductivity	[µS/cm]	max. 100	acc. to ISO 787-14
pH value		6.5 - 8.0	acc. to ISO 787-9
Density	[g/cm ³]	typ. 3.2	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. 30	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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