

Sapetin[®] D 27

Dispersant and plasticizer

Chemical description	Sapetin D 27 is an almost neutral and odourless aqueous solution of modified phosphonic acid salts.	
Mode of action	Sapetin D 27 has a highly negative charge; it is adsorbed to filler and pigment surfaces and thus creates a repulsion effect between the single particles, so that highly concentrated dispersions with reasonable viscosity can be produced. Due to the high stability of Sapetin D 27 against hydrolysis a stable dispersing effect is ensured thus counteracting agglomeration.	
Specification (average values)	Solids content:approx. 45,0 %007 *)Density (20°C):approx. 1,41 g/cm³042 *)pH value:approx. 8,3008 *)Viscosity (20°C):approx. 90 mPas053 *)Solubility:freely miscible with waterAppearance:colourless to yellow coloured solution*) Internal method code – description available on request	
Properties	 Highly negative charge. Stable against hydrolysis even in alkaline media. Excellent dispersing effect in a broad pH value range. 	
	- Has chelating properties (e.g. bonding iron).	
	- Is fixed to filler and pigment surfaces.	
	- Particularly effective in dispersing silicate fillers, e.g. kaoline.	
	- Low addition rates suffice for high efficiency.	
	- Very low odour level, free of preservatives or organic solvents.	
Application	Sapetin D 27 is a dispersant for mineral fillers, e.g. kaolins, calcium carbonate minerals, metal oxide pigments, etc. It is also a plasticizer for self-levelling floor finishes, ceramic compounds, concrete-bonding mortars, cement finishing coats, and cement products. For the production of porcelain the addition of Sapetin D 27 allows to take the green moulded articles smoothly out of the gypsum moulds.	
Note	The optimum dosage for Sapetin D 27 can be determined by plotting a dispersant requirement curve. By this means, any tendency to flocculation can be counteracted.	
Storage	Sapetin D 27 must be protected from frost during storage. Its shelf life in the original containers is at least one year.	

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Labelling / Safety	Please see safety data sheet
Packaging	30 kg can 300 kg drum Container Road tanker
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