

Octa-Soligen[®] Cobalt - Accelerators for unsaturated polyesters



Description

Cobalt is a fundamental accelerator used in conjunction with organic peroxides to cure unsaturated polyester systems. Radical polymerization will initiate as a result of rapid decomposition of the organic peroxides.

Supply form

Octa-Soligen[®] accelerators are based on metal salts of 2-ethylhexanoic acid (octoates) or their isomers.

We supply cobalt octoates with different metal contents in different solvents that meet the specific requirements of various applications:

Products	Applications
Octa-Soligen [®] Cobalt 6 (xylene)	unsaturated polyesters
Octa-Soligen [®] Cobalt 10 (xylene)	
Octa-Soligen [®] Cobalt 12 (xylene)	
Octa-Soligen [®] Cobalt 6 HS	unsaturated polyesters VOC-reduced and High-Solid coatings
Octa-Soligen [®] Cobalt 8 HS	
Octa-Soligen [®] Cobalt 12 HS	

Properties

Octa-Soligen[®] Cobalt accelerates the film structure and the cure of the resin binder. High addition rates should be avoided. A very low dosage of Cobalt supports this essential peroxide decomposition. In turn, radicals cure the polyester resin by starting a polymeric chain reaction. Otherwise, film imperfections like crimping, cracks and discoloration, due to overheating, can occur.

Various types of accelerators are available such as those mixed in xylene and fatty acid esters.

Applications

Octa-Soligen[®] Cobalt grades are used in unsaturated polyester systems for coatings and casting resins, as well as in synthetic resins for fiber reinforced tools.

It can also be used as an accelerator in unsaturated polyester resins, resulting in a shorter gel time.

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Addition

In unsaturated polyesters, the addition of cobalt is between 0.005 and 0.020 %, calculated on solid binder.

Octa-Soligen[®] Cobalt accelerators can be used in combination with *Borchers[®] S1* and *Soligen[®] Copper 8*.

Borchers[®] S1 helps to decrease the color of the resin binder that results from the Cobalt. This is obtained due to a reduction of the Cobalt which overlays the natural Cobalt color shade.

In combination with *Soligen[®] Copper 8*, pot life can be controlled. In addition, the curing process will proceed with less thermal development. This is important to prevent surface imperfections and discoloration, particularly when coating bigger tools.

Irrespective of these guidelines, the addition should always be determined in preliminary trials.

Storage

Protect from the effects of weathering and store at temperatures between 5 and 30 °C.
Once opened, containers should be resealed immediately after each removal of the product.

Safety

Please refer to our safety data sheet for information relating to product safety.

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