Allied Chemicals for Composites
Total solution provider "One Stop Shopping" for Composites.

Promoters - Accelerators
Accelerators are compounds used in the polymer and vinyl ester resins to speed up the curing reaction. Most of the Poliya’s resins and gelcoats are pre-promoted. Depending on conditions, promoters can be added by the composite manufacturer prior to adding catalyst to the resin. In general cobalt-based promoter helps the catalyst to start the chemical reaction between the resin and styrene monomer and form a cured solid.

Cobalt Promoters
Cobalt 1% solution 25 kg/Canister
Cobalt 6% solution 24 kg/Canister
Cobalt 8% solution 5 kg/Canister
Cobalt 8% solution 25 kg/Canister

The industry standard Cobalt 6% is an abbreviation for the compounds cobalt napthenate and cobalt octoate, usually supplied as a 6% solution. These compounds are promoters used in the curing of polyester and vinyl ester resins with methyl ethyl ketone peroxide (MEKP) type catalysts. The purpose of cobalt-based promoters is to speed up the curing reaction of polyester and vinyl ester resins and allow them to cure at room temperature. The exact amount of promoter added to the resin will depend on the resin used, the temperature in the workshop and the gel time desired. Usually 0.1 to 1% (based on the mass of resin) of cobalt 6% type promoter is added.

Pergaquick A 200
DMA - Dimethylaniline
25 kg/Canister

It is a promoter used in the curing of polyester and vinyl ester resins. DMA can be used on its own with benzoyl peroxide (BPO) type catalysts or in combination with cobalt 6% promoters with methyl ethyl ketone (MEKP) type catalysts. These systems give rapid cure at room temperature.

DMA is used to speed up the radical formation in a controllable way and allow polyester and vinyl ester resins to cure at room temperature. The exact amount of promoter added to the resin used, the temperature in the workshop and the gel time desired. Usually 0.05-0.6% (based on the mass of resin) of DMA promoter is added.

AkzoNobel - NL Series
Cobalt - Amine Accelerators
25 kg/Canister

Cobalt Accelerators
NL-48P Cobalt octoate 0.5%
NL-49P Cobalt octoate 1%
NL-51P Cobalt octoate 6%
NL-53 Cobalt octoate 10%
NL-23 Cobalt/Amine mix 3%
383 Metal complex 4%
553 Metal complex 1.9%
55028 Metal mix 2.2%

Amine accelerators
NL-63-100 Dimethyl aniline 99%
NL-63-10P Dimethyl aniline 10%
NL-64-100 Diethyl aniline 99%
NL-64-10P Diethyl aniline 10%
NL-65-100 Dimethyl-p-toluidine 99%
NL-65-10P Dimethyl-p-toluidine 10%
Do not mix Promoter directly with Catalyst!

Promoters must never be mixed directly with catalyst since a violent explosive reaction results! This is why it is important that all promoters are thoroughly mixed with the resin before adding the catalyst.