

Title (en)

PROCESS FOR CONTROLLING GELATION AND CURE OF UNSATURATED RESINS.

Title (de)

VERFAHREN ZUR KONTROLLE DES GELIERENS UND DES HÄRTENS UNGESÄTTIGTER HARZE.

Title (fr)

PROCEDE DE CONTROLE DE LA GELIFICATION ET DE LA POLYMERISATION DE RESINES NON-SATUREES.

Publication

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Application

**EP 83902670 A 19830803**

Priority

US 40681682 A 19820810

Abstract (en)

[origin: WO8400765A1] A process for controlling the gelation and cure rate of unsaturated resins useful for thermosettable compositions and laminates. A small amount of an enolizable beta-diketone such as 2,4-pentadione added to a vinyl ester of a polyglycidyl ether of a polyhydric compound, an unsaturated polyester or a mixture thereof contributes toward the control of the rates. Admixed with the enolizable beta-diketone and unsaturated resin is a peroxide selected from ketone peroxides, tertiary hydroperoxides or peroxyesters, and a redox reactive metal salt soluble in the curable resin such as cobalt naphthenate. The unsaturated resins have a pH greater than 5.7 measured as a 10 percent methanol solution. The mixture is maintained at a temperature less than 54oC to extend the nongelled state and then raised above 54oC to achieve acceleration of the cure rate.

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