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ISO 9001
ISO 14001
BUREAU VERITAS
Certification

PLATINUM Top 1%
ecovadis
Sustainability Rating
SEP 2026



THERMOSET RESINS FOR FIRE RETARDANT SYSTEMS

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UPR FIRE RETARDANT SYSTEMS

Unsaturated polyester resins (UPR) are the most used thermoset resins in the world because of easy application, excellent performance properties and their low cost.

A multi-ingredient combination of fire retardants turned out to make significant progress in achieving a desired fire retardancy level in thermoset resins.

FIRE RETARDANT



HIGHLIGHTS OF OUR PRODUCTS

- medium / fast cure
- outstanding durability
- good mechanical and wetting properties
- good workability
- good thermal stability
- reduced styrene emissions
- low toxicity

SAFETY AS A TOP PRIORITY

Intumescent fire retardant (IFR) systems inhibit, suppress, and delay the production of flames to prevent the spread of fire. We gain the **precious time** we urgently need for **evacuation**.

EN 45545-2 European Railway Safety standard
Our system of resin and intumescent gelcoat meets the following requirements:
R1 – horizontal / vertical interior surfaces
R7 – Interior surfaces of gangways/Air ducts
R17 – Cab housing – External surfaces
HL 1, HL 2

PRODUCT	CHEMICAL NATURE	REACTIVE MONOMER CONTENT (%)	ELONGATION AT BREAK (%)	HDT (°C)	TENSILE STRENGTH (MPa)	DESCRIPTION
COLPOLY 7605 W + COLGEL GC 647	DCPD	25	2.5	95	60	Intumescent fire-retardant system approved according to EN 45545-2.
COLPOLY 7604 D	DCPD	25	2.0	70	70	Pre-accelerated, non-halogenated thixotropic resin. DIN 5510 – Part 2 S4 SR2 ST2.
COLPOLY 7608	DCPD	33	3.0 – 3.5	80	65	Pre-accelerated, contains barrier-forming agents to reduce styrene emission. DIN 5510 – Part 2 S4 SR2 ST2.