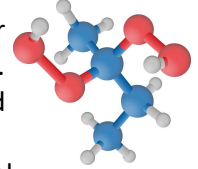


PENTOX-40/PENTOX-40R*

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Pentox-40/Pentox-40R are peroxide initiators for copolymerization of unsaturated polyester resins. They are mainly applied in the presence of cobalt accelerators at ambient temperature. The initiators are particularly recommended in applications with turnover moulding, such as cold moulding or injection moulding techniques.



In comparison with Metox-50 they contain less active oxygen. They present though similar gel time and higher exothermic peak temperature, therefore they are not recommended for the production of thick layers during one-step operation and for curing of gel coats.

Product description	Acetyl acetone peroxide (2,4-pentanedione peroxide)
Appearance	Clear, colorless solution * Clear, red solution
Active oxygen	4,0 ÷ 4,2%
Peroxides	30 ÷ 33%
Water content	Approximately 6,2%
Density at 20°C	1,050 ÷ 1,055 g/cm ³
Solubility	Soluble in ethyl acetate, dimethyl phthalate and water
SADT	60°C
Recommended storage temperature	0 - 25°C
Hazards	Oxidizing agent, decomposes rapidly under the influence of heat, mechanical impurities or by contact with reducing agents. Never mix hardener with accelerator.
<i>Recommended precautions and first aid measures - see Material Safety Data Sheet for the mixture.</i>	

Copolymerization process: resin (100g) - hardener (2g)

Hardener	Gelling time	The highest temperature	Time to temperature peak
	[min]	[°C]	[min]
METOX-50	24-26	153,0-159,4	41-45
PENTOX-40	28-29	172,0-180,0	37-39

Data for the resin used: orthophthalic unsaturated polyester, thixotropic – preaccelerated, low styrene emission.

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