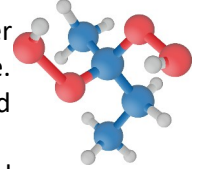


PENTOX-40/PENTOX-40R*

Date of update: February 08, 2024

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	23 ÷ 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
Expiration date*	12 months from the production date
Hazards	Oxidizing agent, decomposes rapidly under the influence of heat, mechanical impurities or by contact with reducing agents. Never mix hardener with accelerator.

Recommended precautions and first aid measures - see Material Safety Data Sheet for the mixture.

*Provided the product is stored and transported the recommended temperature.

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.

All product information and suggestions herein are provided in good faith and in a reliable manner. Oxytop does not guarantee as to the completeness of the information contained herein for purpose or fitness for a particular purpose. Oxytop does not guarantee that all possible use does not infringe any patent. The purchaser should determine the suitability of the product for a particular purpose, by preliminary tests.

This document supersedes all previously issued data sheets (TDS) for a specific product. It is allowed to transmit, distribute, copy this document only in its original form, with headers and footers. It is not allowed to place the document on the website.