

SYNOLITE™ 7044-M-1

CHEMICAL/PHYSICAL NATURE

Synolite™ 7044-M-1 is a polymeric amine resin, dissolved in styrene. The resin has a medium viscosity.

MAJOR APPLICATIONS

Synolite™ 7044-M-1 is a special product. It is recommended as accelerator for benzoyl peroxide (BPO), especially in unsaturated polyester resins for car body filler paste compositions, marble putties, wood putties, chemical anchoring systems, and cold-press technique. In addition, Synolite™ 7044-M-1 is applied as a promoter in a ketone peroxide / cobalt accelerator cure system in unsaturated polyester resins for hand lay-up and spray-up, polymer concrete, and resin transfer moulding.

PRINCIPAL PROPERTIES

Synolite™ 7044-M-1 is a non-toxic alternative for aromatic tertiary amines like N,N-Dimethyl aniline and N,N-Dimethyl aniline, and is recommended as BPO-accelerator. Synolite™ 7044-M-1 gives rapid hardening of UP resins, with efficient curing also at longer gel times. In car body filler pastes, excellent storage stability is combined with fast and tack free curing. Synolite™ 7044-M-1 accelerator does not leach amines from cured UP resins, which prevents staining of coated car repair putties.

PRODUCT SPECIFICATIONS UPON DELIVERY

Property	Range	Unit	TM
Appearance	clear	-	2265
Color, Gardner	max. 11	-	2017
Solids content, IR	52.0 - 55.0	%	2033
Viscosity, 23°C	595 - 805	mPa.s	2013

PROPERTIES OF THE LIQUID RESIN (TYPICAL VALUES)

Property	Value	Unit	TM
Flash point	appr. 33	°C	2800
Stability, no init., dark, 20°C	min. 3	Month	-

PROCESSING

The following dosage levels are recommended:

Synolite™ 7044-M-1 applied as accelerator for BPO

Component	Weight
UP resin	100
Synolite™ 7044-M-1	2.5 - 4.0

Synolite™ 7044-M-1 applied as promoter for ketoneperoxide /cobalt accelerator cure system

Component	Weight
UP resin	100
AKZO NL-49P (1% cobalt solution)	2 - 3
Synolite™ 7044-M-1	0.2 - 0.4

REMARKS

Never bring peroxide in direct contact with this accelerator.

REMARKS ON CURING AGENTS

Synolite™ 7044-M-1 is an accelerator for benzoyl peroxide in the curing of unsaturated polyester resins, and is used as a promoter in a ketone peroxide / cobalt accelerator cure system.

GUIDELINES BEFORE USE

Before use, the resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP / Co cure). Stir the product before blending.

STORAGE GUIDELINES

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C and the properties might change during storage. Shelf life is reduced at higher temperatures and the properties of the resin might change during storage. The shelf life of monomer containing unsaturated polyesters will be significantly reduced when exposed to light. Store in dark and in 100% light tight containers only.

MATERIAL SAFETY

A Material Safety Data Sheet of this product is available on request.

TEST METHODS

Test methods (TM) referred to in the table(s) are available on request.

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PRODUCT INQUIRY? PLEASE CLICK HERE

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