PERGAQUICK A150 PM



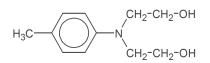
Amine accelerators / Curing

Description

Ethoxylates of p-toluidine

liquid mixture

PERGAQUICK A150 PM is used as an accelerator for curing of unsaturated polyester and PMMA resins at ambient temperature in combination with Dibenzoyl peroxide (PEROXAN BP-types).



CAS No.:

Technical data	Appearance: Active substance assay: Density at 20°C:		dark liquid over 99% 1.1 g/cm³
Solubility	Insoluble in water, soluble in various organic solvents		
Storage	Maximum storage temperature (Ts n Minimum storage temperature (Ts m Storage stability as from date of deliv	in):	30°C 0°C 6 months
	Keep packaging tightly closed in a well ventilated place at indicated storage temperature.		
Hazardous reactions	Might react violently with organic peroxides. It is therefore not allowed to store or transport the product together with peroxides. NEVER BRING AN ACCELERATOR INTO DIRECT CONTACT WITH PEROXIDES!		
Safety characteristics	Flash point:	>100°C	





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Application	The curing of unsaturated polyester resins at ambient temperatures can in general not be performed by an organic peroxide alone. The radical formation which is necessary - to start the polymerisation reaction - is too slow at ambient temperatures with most generally applied organic peroxides.
	To speed up the radical formation in a controllable way, organic peroxides must therefore be used in combination with a so called accelerator. For diacyl peroxides like Dibenzoyl peroxide - the PEROXAN BP-types - aromatic tertiary amines have to be used as accelerator.
	The following amines are available: N,N-Dimethyl-p-toluidine PERGAQUICK A100 (high reactivity) Ethoxylates of p-toluidine PERGAQUICK A150 PM (high/medium reactivity) N,N-Dimethylaniline PERGAQUICK A200 (medium reactivity) N,N-Diethylaniline PERGAQUICK A300 (low reactivity)
	Each amine type has a different and specific influence on the decomposition of Dibenzoyl peroxide. Therefore, it is possible to adjust a wide variety of gel times and speed of cure by the proper choice of amine type and dosage level.
	The cure system Dibenzoyl peroxide / amine accelerator can be characterized as being: - not sensitive for moisture - practically not sensitive to pigments and fillers - applicable at low temperatures
	Possible disadvantages can be: - a limited pot life of the amine accelerator in the resin - yellow to brown colour of the cured product - poor UV light stability of the cured product - a relatively high residual styrene content in the mouldings after a postcure at elevated temperature especially at high amine accelerator dosages.
	A special application of the amine accelerator is their use as promotor in a ketone peroxide / cobalt accelerator cure system. For this application mainly PERGAQUICK C24 AX is used.
	Depending on application area and working conditions, the following accelerator dosage levels are recommended:
	PERGAQUICK A150 PM: 0,2 to 0,5 phr
Packaging	30kg container 200kg drum 1000kg IBC
Major decomposition products	In case of fire toxic fumes of N-oxides may be formed.
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PERGAQUICK A150 PM. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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