



# Lining Accelerator Technical Datasheet

<b>Product description</b>	Lining Accelerator from S1E is a polymerisation accelerator on a dimethylaniline (DMA) base dissolved in styrene that is used for curing unsaturated polyester and vinylester resins.			
<b>Applications</b>	<p>Lining Accelerator from S1E is used for curing UP and VE resins in connection with benzoyl peroxide at temperatures between 10°C and room temperature.</p> <p>The reaction also kicks off relatively quickly at temperatures below room temperature and relatively short demoulding times are usually achieved.</p> <p>Amine accelerators (such as this) should always be used if curing can be adversely affected by low temperatures or slightly increased humidity. As opposed to DEA and DMPT accelerators, DMA can also be used as an auxiliary accelerator (promotor) for curing systems on a cobalt/ketone peroxide base.</p> <p>However, the quantity added should not exceed 1 %. Other applications should be tested prior to use.</p> <p><b>To prevent undercuring, the use of 1% S1E Lining Accelerator is generally recommended.</b> Gel time should not only be controlled by the dose of accelerator but also by the type of accelerator selected:</p> <p>DEA accelerators &gt;&gt; long gel times</p> <p>DMA accelerators &gt;&gt; medium gel times <b>**S1E Lining Accelerator is a DMA type**</b></p> <p>DMPT accelerators &gt;&gt; short gel times</p>			
<b>Specifications / technical data</b>	<b>Property</b>	<b>Test method</b>	<b>Value</b>	<b>Unit</b>
	Density at 20 °C	DIN 53 217/2	approx. 1.0	g/ml
	Viscosity at 2 °C in an ISO cup	EN ISO 2431	5 - 7	s
	Flash point	DIN 53 213	+ 32	°C
<b>Curing</b>	Reactivity: Test method in accordance with DIN 16 945 6.2.2.1 (100 g Palatal A 400-01 + 1 ml S1E Lining Accelerator + 3 g Perkadox CH 50 X)			
	20 - 30 °C		18 - 22 min	
	20 °C - Tmax		22 - 30 min	
	Tmax		180 - 200 °C	
	NB: The information given above refers exclusively to the use of the catalysts named and the quantities specified. The use of different products or differing quantities may yield different results.			
<b>Note:</b>	Curing with amine accelerators and benzoyl peroxide leads to poor outdoor weathering properties and causes the moulding to yellow prematurely. An overdose of amine Accelerator 10 % (> 4 %) may lead to abnormal curing which prevents achievement of the desired properties of the cured resin (e.g. due to undercuring).			
	<b>Always mix the accelerator with the resin first, then add the peroxide.</b>			



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<b>Storage/Handling</b>	This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 3 months in unopened, original containers stored up to a temperature of 20°C. Gel and curing times may change with increasing duration of storage.  <b>Never mix the accelerator directly with the peroxide since this may cause explosive decomposition of the peroxide.</b>
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**Note:** The Information given above is based on our current state of knowledge and experience. In view of the many factors that may influence working conditions and the application of our products, the user is not relieved from carrying out his own tests and experiments. No legally binding warranty of certain properties or suitability for a particular purpose can be derived from this information. It is the responsibility of the receiver or user of our products to observe proprietary rights as well as existing laws and regulations. The latest version of the corresponding EU Safety Data Sheet must also be observed.

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