



# Conformal coatings and thick film lacquers 2013-07-29 PI 13/66 E-2

for assembled printed circuit boards / flat packs



	Possible application processes painting spraying dipping selective c. dispensing	Drying time until handleable (according to IEC 60464) [min] at			Drying time until encapsulable (strongly depends on coating thickness) at			Operating temperature range [°C]					Insulation resistance under		Flame class according to <b>EN 94</b>  (* test reports: www.peters.de)	ELPEGUARD® product name			
		23 °C	80 °C	110 °C	23 °C	80 °C	110 °C	-65	-40	125	130	140	200	moisture conditions			dewing conditions		
		30	60	90	min	h	d							good	very good	good	very good	V0	V1
Conformal coatings	● ● ● ●	15	60-80		6 h		4 d							■	■			●*	
	● ● ● ●	5	15		2 h									■	■			●	
	● ● ● ●	5	20		1-2 h									■	■			●*	
	● ● ● ●			90			1-2 d							■	■			●*	
Thick film lacquers	● ● ● ●				UV curing		1-3 h							■	■			●*	
	● ● ● ●	15			15 min									■	■			●*	
	● ● ● ●		45				min. 1 d							■	■			●	

SL = conformal coating    DSL = thick film lacquer    ECO = ecological    AQ = water-borne    FLZ = fluorescent

The products mentioned in this selection chart do not contain substances listed in the RoHS directive 2011/65/EC, EU End-Of-Life Vehicle directive 2000/53/EC and WEEE directive 2002/96/EC.

In addition to the technical data sheets on our products the Application Information sheets AI 1/1 Processing instructions for the conformal coatings of the series' ELPEGUARD® and AI 1/2 Processing instructions for the thick film lacquers of the series' TWIN-CURE® offer detailed and extensive information and advice that increase the understanding of the individual process steps and are mandatory to observe for a reliable process flow.