


# Laromer® PE 9126

Very flexible polyester acrylate with high chemical resistance – an alternative to BPA-based resins



For many coating applications, UV resins with high flexibility and good adhesion on flexible substrates are required. Additionally, the substitution of bisphenol A (BPA) in coatings is already today the requirement for several applications and will become more and more important in different areas in future. Laromer® PE 9126 is one of the first products in the market that offers a cost-efficient solution to these requirements.

## At a glance

Chemistry	Polyester acrylate
Thinner	20 % DPGDA
Viscosity at 23°C	8 – 16 Pa·s
Iodine color number	≤ 10 mg l/dl
Functionality	~ 3,2
Labelling	 Signal word: danger

## Medium hardness, no yellowing after cure and exposure

Substrate	BPA building block based					
	Polyester		Epoxy		Urethane	
	PE 9126	PE 9121	Competi-tion	LR 8986	UA 9089	UA 9033
Reactivity [m/min]	3x5	20	3x5	10	5	30
Pendulum hardness [osc.]	48	27	67	111	37	35
Erichsen cupping [mm]	5,9	5,1	5,8	3,3	6,8	7,5
b* after 1 h @ RT	-1,0	-0,8	-1,2	-1,0	-0,9	-1,1
b* after 72 h Suntest	-0,2	-0,6	+0,2	+1,3	-0,7	-0,6
Elongation @ break [%]	9,8	15,8	7,3	3,4	20,7	19,1
Tear force [N/mm <sup>2</sup> ]	32,8	15,8	52,2	39,6	21,1	15,2

## Perfect adhesion PVC, linoleum, PC/ABS, ABS and PET, excellent flexibility

Substrate	BPA building block based								
	Polyester					Epoxy		Urethane	
	PE 9126	PE 9121	PE 9074	LR 8800	LR 8907	Competi-tion	LR 8986	UA 9089	UA 9033
Soft PVC	0	0	0	5	5	0	0	0	0
Hard PVC	0	5	5	5	5	2	5	1	3
Linoleum	0	0	0	0	0	0	0	0	0
PC/ABS*	0	0	0	0	5	0	0	0	0
ABS*	0	0	4	4	5	0	0	0	0
PET	0	3	5	5	5	0	0	0	0
Flexibility (homogeneous PVC)									
360° bend	1	5	2	4	2	1	4	0	0

0 = very good; 5 = very bad

## Performance

- High flexibility
- High chemical resistance, e.g. against iodine, eosin, KMnO<sub>4</sub>
- Excellent adhesion on many flexible substrates, e.g. PVC and several plastics

## Sustainability


Substituting BPA, thereby meeting latest and potential upcoming requirements in the coating industry

## Design

Very low gloss achievable with typical matting agents



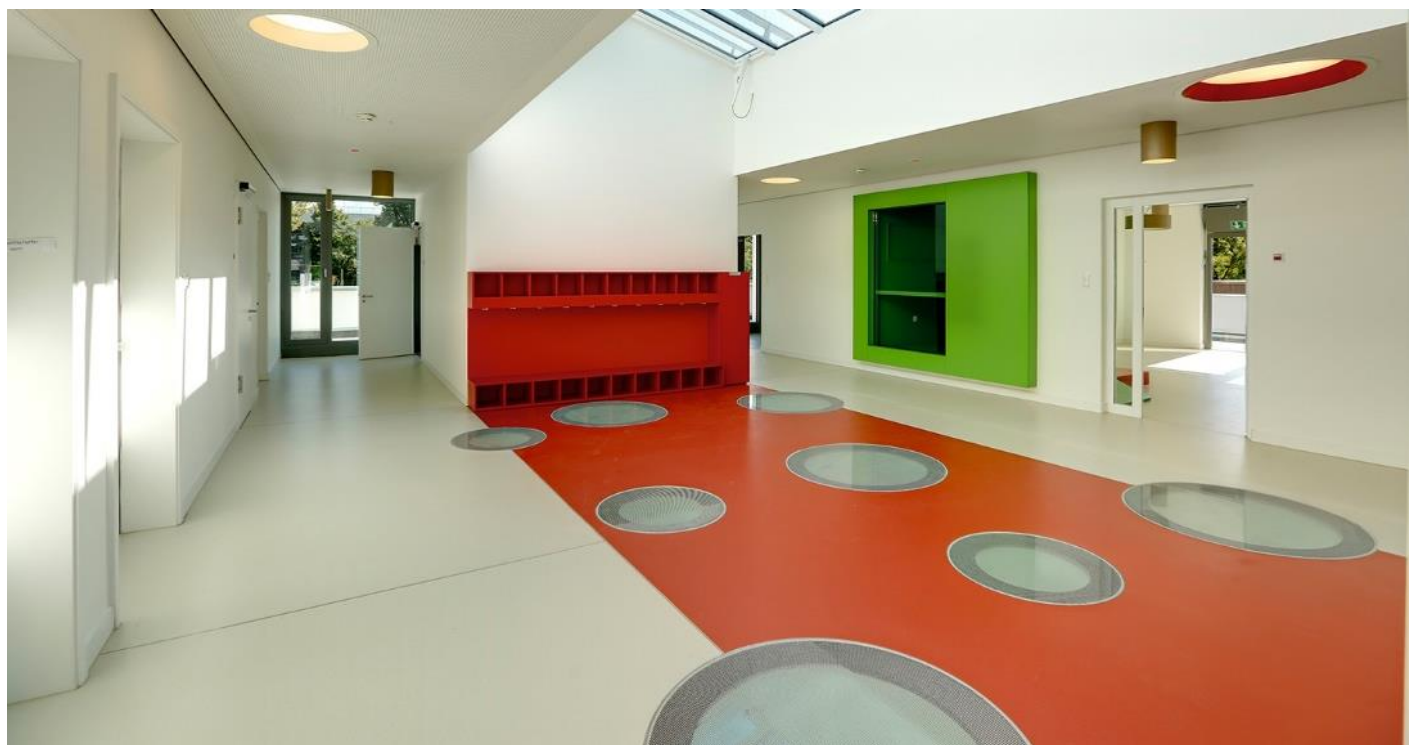
### UV

 Wire bar application.  
Curing at 1 x 120 W/cm Hg lamp

### Coating applied



Applied 12-15 g/m<sup>2</sup> DFT  
\*40 µm DFT



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