



Preliminary

## Technical data sheet

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Product name	<b>Bluepox 395</b>
Product description	<p>Bluepox 395 is a lightcuring 1K pure epoxy system that is initiated and cured by a 395nm lightsource</p> <p>The system is characterized by having good mechanical strength and low shrinkage as well as chemical resistance superior to classical epoxy systems.</p> <p>The Bluepox 395 can be used for CIPP applications, filament winding as well as repairs of composite parts, coating etc.</p> <p>CIPP applications can be made up to 4mm thickness with PE felt, composite parts with 4-5 layers of 450 gr/m2 glasfibers.</p> <p>System is cured by 395nm lightsource typically 15-25s. Minimum temperature to be reached must be +75 degr.C</p> <p>Shelf life 6 months when stored in sealed original packaging</p>
Properties liquid	<p>Viscosity: 2500 - 5000 mPas mPas at 25 degr.C</p> <p>Colour: clear - yellowish</p>
Reactivity	<p>15-22 s. to 50degr using light source 395nm intensity 0,23 w/cm2 in 16mm testube</p> <p>90-110 s. to peak 175 - 195 degr.C</p>
CIPP	<p>Estimated speed lighthtrain 25-35m/h with 3mm reinforcement at RT</p>
Properties cured	<p>Tg +140 degr.C</p> <p>Tensile Strength 70 - 76 MPa</p> <p>Tensile modulus 3300 - 3900 Mpa</p> <p>Elong.to break 2,5 - 3,2%</p> <p>Flexural strength 90 - 120 Mpa</p> <p>Flexural modulus 3300 - 3900 MPa</p> <p>Shrinkage 1,6 - 2,2%</p>
Packaging	<p>10kg cans; 200kg drums; 1000kg IBC</p>
Labelling	<p>UN 3082 packaging group III</p>

All data given in good faith based upon practical results and laboratory tests.

axl/09.05.2023

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VAT DK 28892470



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Product name **Bluepox 395 - Chemical resistance**

Conditions:

The water Ph3 - 7 - 11 as well as 5% HCL and 15% H2SO4 are placed at 60 degr.C in oven to accelerate deterioration.

5% and 30% NaOH, 10% HNO3, Xylene, alcohol and styrene are kept at 23degr.C

Bluepox 450								
Immersion Solution	test temp.	Initial weight	After immersion weight	Difference		Tensile strength	Tensile Modulus	Difference tensile strength
30 days test	C.	g	g	g	%	MPa	MPa	
<b>Initial test value</b>						<b>75</b>	<b>3350</b>	
PH 3 Water	60 degr	17,194	17,474	0,280	1,628%	83	3333	-1%
PH 7 Water	60 degr	23,103	23,245	0,142	0,616%	78	3088	-8%
PH 11 Water	60 degr	19,795	19,894	0,099	0,500%	72	3122	-7%
5% NaOH	60 degr	21,372	21,453	0,081	0,378%	71	3415	2%
30% NaOH	60 degr	18,629	18,652	0,023	0,124%	73	3460	3%
5% HCl	60 degr	19,081	19,518	0,437	2,291%	38	3182	-5%
15% H2SO4	60 degr	17,937	18,270	0,334	1,860%	49	3707	11%
10% HNO3	60 degr	19,435	19,523	0,087	0,449%	39	3460	3%
Xylene	60 degr	21,723	21,766	0,044	0,201%	61	3382	1%
Alcohol ethano	60 degr	20,284	20,338	0,055	0,270%	65	2802	-16%
Styrene	60 degr	18,745	18,843	0,098	0,523%	33	3346	0%

BPA/F with amine curing agent								
Immersion Solution	test temp.	Initial weight	After immersion weight	Difference		Tensile strength	Tensile Modulus	Difference tensile strength
	C.	g	g	g	%	MPa	MPa	
<b>Initial test value</b>						<b>70</b>	<b>2950</b>	
PH 3 Water	60 degr	16,623	17,596	0,973	5,855%	78	2302	-22%
PH 7 Water	60 degr	16,091	16,160	0,070	0,433%	72	2800	-5%
PH 11 Water	60 degr	19,100	19,219	0,118	0,619%	74	2831	-4%
5% NaOH	60 degr	18,219	18,328	0,109	0,598%	72	3102	5%
30% NaOH	60 degr	21,924	21,957	0,032	0,148%	62	2969	1%
5% HCl	60 degr	17,564	18,665	1,101	6,267%	22	2944	0%
15% H2SO4	60 degr	18,454	22,643	4,188	22,696%	9	dissolved	-
10% HNO3	60 degr	15,641	15,970	0,329	2,102%	40	2953	0%
Xylene	60 degr	20,302	20,385	0,083	0,408%	64	2967	1%
Dried Alcohol	60 degr	17,596	18,013	0,417	2,369%	37	2328	-21%
Styrene	60 degr	19,039	19,842	0,802	4,214%	38	2162	-27%

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