

**Technical
Datasheet**
WEVOPOX 8260 FL

Solvent free epoxide resin with excellent thermal conductivity and thermal resistance. The resin component contains a mineral filler providing the material with self-extinguish properties. The resin contains no halogenated flame-retardants. The system is tested by Underwriters Laboratories under the File-No. E108835 at a thickness of 6 mm in red colour according to UL94V-0. The RTI value is 90°C (Generic thermal index).

Due to the high content of mineral fillers, this resin shows low shrinkage during polymerisation. The elastified system shows good performance in thermal cycle tests.

Operating temperature -40°C to +160°C.

The casting resin is used with **WEVODUR 1018/25**

Applications:
Product Specification:

<u>Mixing ratio:</u>	by weight: 100 parts WEVOPOX 8260FL 29 parts WEVODUR 1018/25			
<u>Viscosity (22°C):</u>	WEVOPOX 8260FL:	30.000	-	50.000 mPa·s
	WEVODUR 1018/25:	200	-	800 mPa·s
	Mixture at 22°C:	2000	-	3.000 mPa·s
<u>Viscosity (60°C):</u>	WEVOPOX 8260FL:	-		mPa·s
	Mixture at 60°C:	100	-	400 mPa·s
<u>Density (22°C):</u>	WEVOPOX 8260FL:	1,65	-	1,75 g/cm³
	WEVODUR 1018/25:	1,14	-	1,24 g/cm³
<u>Colour:</u>	WEVOPOX 8260FL:	red or as requested		
	WEVODUR 1018/25:	yellowish		
<u>Pot life (250gr.):</u>	ca. 4 hours	at 60°C		
	The curing time depends on the temperature, the potlife, the thickness of the layer and the casting volume.			
<u>Curing time:</u>	60 minutes	at 80°C		
	2 - 4 hours	at 110°C		
<u>Final hardness:</u>	days			



**Physical Properties:**

<u>Shore-hardness D:</u>	84 - 88
<u>Tensile strength:</u>	50 N/mm ²
<u>Elongation at break:</u>	1 %
<u>Modulus of elasticity:</u>	7400 N/mm ²
<u>Thermal conductivity:</u>	0,94 W/m·K
<u>Glass transition temperature:</u>	ca. 90°C
<u>Coefficient of Expansion:</u>	61 ppm/K 143 ppm/K
<u>Thermal class:</u>	
<u>Shrinkage after curing:</u>	
<u>Water absorption:</u>	0,15 %
<u>Flammability:</u>	V-0; 6 mm

Test specification:

ISO 868, DIN 53505
ISO 527-2
ISO 527-2
ISO 527-2
ISO 8894
TMA
< 85°C TMA
> 95°C TMA
DIN EN 60085
after 30 days immersion
UL 94

Electrical Properties:

<u>Dielectric strength:</u>	30 kV/mm	DIN EN 60243-1
<u>Volume resistance:</u> 23°C/50% r.h.	10 ¹⁵ Ω·cm	DIN EN 60093
<u>Surface resistance:</u> 23°C/50% r.h.		DIN EN 60093
<u>Dielectric constant ε:</u> at 50 Hz, 23°C	3.8	DIN EN 60250
<u>Dissipation factor tanδ:</u> at 50 Hz, 23°C	0.8	DIN EN 60250
<u>Comparative tracking index:</u>	CTI 600	DIN EN 60112

Packaging: 10 kg, 30 kg-buckets, 250 kg drums

Shelf life: in original closed cans or drums, dry storage between 15°C and 25°C, 12 months.

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