

TECHNICAL DATA SHEET



ST21 A / CA51 B

Dec. 2016

Epoxy adhesive

Mix ratio:

Resin:	ST21 A	100 p.b.w.
Hardener:	CA51 B	9 p.b.w.

PRODUCT DESCRIPTION

Resin: ST21 A

Bisphenol A based epoxy Resin with not abrasive fillers.

<i>Characteristics:</i>	<i>Test method</i>	<i>Unit</i>	<i>Value</i>
Viscosity at 25°C	ISO 2555	mPa.s	6000 – 10 000
Standard colour			Black
Specific Gravity at 25°C	ASTM D 1475	g/cm ³	1.61 – 1.65

Storage: 6 months in dry conditions at temperature 15-25°C, in the original sealed container. Before using it is suggested to re-homogenize the resin if a little settling occurs.

Hardener CA51 B

Formulated liquid amine.

<i>Characteristics:</i>	<i>Test method</i>	<i>Unit</i>	<i>Value</i>
Viscosity at 25°C	ISO 2555	mPa.s	40 - 150
Standard colour			n.c.
Specific Gravity at 25°C	ASTM D 1475	g/cm ³	0.98 – 1.02

Storage : 6 months in dry conditions at temperature 15-25°C, in the original sealed container. After a longer period, product has to be recontrolled before using. Hardener is moisture sensitive. Be careful to avoid a long exposure to air, sealing immediately again opened containers.

CURING AT 25°C :

Pot life		min	30 à 40
Gel time	ASTM D 2471	min	50 à 90 (TECAM 100 g)
Mix viscosity	ASTM D 2393	mPas	1000 à 2000

PROPERTIES :

After 24 h at 25°C and 2h at 60°C

Properties	Standard	Unit	Value
Specific weight	ASTM D 792	g/mL	1,58 - 1,62
Flexural strength at max load	ISO R 178	MPa	80 - 90
Tensile strength at max load	ISO R 527	MPa	35 - 45
Hardness	DIN 53505	Shore D	85 - 90
Glass temperature transition	ASTM D 3418	°C	55 - 65
Thermal Conductivity	ISO 8894-1	W/m °K	0,7 - 0,8
Water Absorption			
10 days at 25°C	UNI ISO R 62	%	0,15 - 0,2
1 h at 100°C	ISO R 117	%	0,2 - 0,3
Permittivity at 25°C, 50Hz	IEC 250		4,2 - 4,4
Dielectric strength at 25°C	IEC 243	kV/cm	190 - 210
Volume Resistivity	DIN 53482	ohm cm	7 - 8 x 10 ¹⁴ (25 °C)
Tracking resistance	IEC 112	V	> 600
Colour			Black
Operating Temperature		°C	-50 +150°C

GUARANTEE

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