

RAIGIPOX A410-A + RAIGIPOX A410-B

HEAT CURING EPOXY SYSTEM

DESCRIPTION GENERALE :

Raigipox A410-A + Raigipox 410-B is an epoxy system that is heat-released after mixing. The mixture of the two components leads to Raigipox A409.

MAIN CHARACTERISTICS (after mixing both components = RAIGIPOX A409)

- Dark grey filled epoxy resin
- Latency of 2 months at 20°C or 4 months at 5°C.
- Fast release from 130°C.
- The actual curing time will depend on the temperature of the parts to be bonded.
- Very good high temperature resistance.
- Excellent adhesion to many substrates such as aluminium and most plastics. For optimal bonding, the contact surfaces must be clean and free of oil, grease and dirt. The adhesion properties can be improved by sanding or by sanding or grinding.
- **Due to the high exotherm of reaction, it is advisable not to cast solid parts and not exceed a few millimetres in thickness per casting.**
- Complies with Directive 2002/95/EC, the so-called RoHS Directive.

APPLICATIONS COURANTES :

- Adhesive
- Protection of connections

Processing conditions of RAIGIPOX A410-A + RAIGIPOX A410-B

		VALUES	UNITS	NORMS
		Raigipox A410-A		
Color		Light grey		
Density		2.25 ± 0.05		NF EN ISO1675
Initial viscosity at 25°C	M7 20t/mn	80 000 ± 20 000	mPa.s	NF EN ISO 2555
	M7 4t/mn	270 000 ± 50 000	mPa.s	NF EN ISO 2555
Flash point		> 150	°C	
		Raigipox A410-B		
Color		Black		

Mixing ratio (by weight) : $\frac{\text{Raigipox A410-A}}{\text{Raigipox A410-B}} = \frac{100}{0.87}$

PROCESSING CONDITIONS		VALUES	UNITS	
Gel time on about 2 g	at 100°C	3000 ± 600	secondes	R016 (Internal method)
	at 120°C	900 ± 200	secondes	
	at 140°C	300 ± 80	secondes	
	at 160°C	150 ± 30	secondes	
Recommended post-cooking conditions	at 140°C	2	hours	
	at 160°C	1	hours	

POLYMER PROPERTIES RAIGIPOX A410-A + RAIGIPOX A410-B

PHYSICAL PROPERTIES (*)	VALUES	UNITS	NORMS
Color	Dark Grey		
Density	2.3		ISO 2781
Volume shrinkage	1.5	%	ISO 3521
Shore Hardness at 25°C	85 ± 5	D	NF ISO 868
THERMAL PROPERTIES (*)			
Heat Deflection Temperature HDT / B (0.45 N/mm ²)	93	°C	ISO R 75
Thermal conductivity	1.27	W/m ² K	ISO 22007-2
MECANICAL PROPERTIES (*)			
Impact resistance	3.5	kJ/m ²	NF EN ISO 179
DIELECTRIC PROPERTIES (*)			
Dielectric Constant at 20°C (55 kHz)	4.2	-	IEC 250
Dissipation factor tan (55 kHz)	0.007	-	IEC 250
Volume resistivity at 20°C	1.4 x 10 ¹⁴	Ω.cm	NFC 26-215

(*) tested on specimens cured for 2 hours at 120°C +post cure for 2 hours at 140°C




PACKAGING :

RAIGIPOX A410-A : 30 Kg net
 RAIGIPOX A410-B : 0.270 Kg net

RAIGIPOX A410-A / RAIGIPOX A410-B

PRECAUTIONS

Avoid any contact with the skin and the eyes.

The port of gloves  , safety goggles  and working clothes  is strongly recommended.

In case of contact with eyes, rinse immediately with plenty of water. If irritation appears, take medical advice.

After contact with skin, wash immediately with plenty of water and soap.

Work only in ventilated area, far from flame. Use local exhaust extraction over processing area in the event of closed areas.

Refer to the Material Safety Data Sheets for additional information concerning the safety and the working conditions.

STORAGE

RAIGIPOX A410-A can be stored up to 6 months safe from moisture and the direct solar radiation, at a temperature between + 15°C and + 25°C, in unopened drums.

Never exceed 30 ° C during storage. The product may polymerize in case of elevation of temperature.

RAIGIPOX A410-B can be stored up to 6 months safe from moisture and the direct solar radiation, at a temperature between + 15°C and + 25°C, in unopened drums.

An opened package must carefully be closed again under nitrogen cover be stored safe from moisture.

GUARANTEE

The information contained in this note is the most exact and most precise written form we can do regarding our current knowledge.

However, they are only given as an indication.

Furthermore, the conditions of uses are out of our control. So, this information can not imply any guarantee of our share.