



PROTAVIC[®] PNE 40826 A & B

A 27886-08-A
A 28199-08-A

DEFINITION

PROTAVIC[®] PNE 40826 A & B is a two-component system, solvent free, electrically insulating epoxy adhesive, which is specially designed for protecting the devices from heat, humidity and mechanical damages. **PROTAVIC[®] PNE 40826 A & B** exhibits excellent mechanical properties up to 300°C and is recommended as Set-Top Box (STB) makers to prevent chip detaching in order to obtain an almost indestructible protective layer.

PROTAVIC[®] PNE 40826 A & B is CMR free and is compliant with RoHS regulation.

PRODUCT DESCRIPTION

PROTAVIC PNE 40826 A

Nature	silica filled epoxy resin	
Appearance	viscous liquid	
Odour	faint	
Colour	black	
Guaranteed specification	Standard	Method
Cone and plate viscosity (mPa.s)	45 000 ± 15 000	NFT 51211

PROTAVIC PNE 40826 B

Nature	silica filled hardener	
Appearance	viscous liquid	
Odour	amine like	
Colour	grey	
Guaranteed specification	Standard	Method
Cone and plate viscosity (mPa.s)	30 000 ± 15 000	NFT 51211

PROTAVIC[®] PNE 40826 A & B mixed product

Significant values on mixed product		
Appearance	viscous liquid	
Odour	slight amine like	
Colour	black	
Density of mixed product	1,25 approximately	
Curing schedules	20 minutes at 65°C Alternative curing : 7 days at 25°C	
Mix ratio by volume	PROTAVIC PNE 40826-A	2
	PROTAVIC PNE 40826-B	1
Mix ratio by weight	PROTAVIC PNE 40826-A	2
	PROTAVIC PNE 40826-B	1
Storage of each component	6 months at T < +25°C	
Pot life* after mixing part A + B (20±2°C)	20 - 30 minutes	

*: pot life defined as time corresponding to 100 % increase of viscosity at 20°C.

APPLICATION PROPERTIES

The rheology and twin-tube package with mixer nozzle make the **PROTAVIC[®] PNE 40826 A & B** easy to mix and apply in one step.

The high ionic purity of the **PROTAVIC[®] PNE 40826 A & B** also avoids problems of corrosion, which would otherwise reduce the working life of the system.

CONDITIONS OF USE

Degrease very carefully substrates or components before bonding with non chlorinated solvents - isopropyl alcohol type - and finish, if possible by degreasing in a solvent vapour at the end, to achieve optimal adhesion.

Typical curing schedule is 20 minutes at 65°C or 7 days at 25°C.

TYPICAL PROPERTIES OF POLYMERIZED SYSTEM

The properties given below and summarised in the following tables were obtained after polymerisation for 20 minutes at 65°C in a ventilated oven.

These values given are typical and do not correspond to a guarantee. The user must, in all cases, by his own studies, determine the optimal polymerisation conditions for his own particular application of the **PROTAVIC® PNE 40826 A & B**.

1) PHYSICO-CHEMICAL PROPERTIES

PROPERTIES	METHODS	UNITS	VALUES
Density	NFT 51063	none	1.25 approx
Shore D hardness	NFT 51109	none	92
Lap shear strength at 20°C	NFT 76107	MPa DaN/cm ²	> to 5.0 > to 50

2) THERMAL PROPERTIES

Properties	Methods	units	Values
Coefficient of thermal expansion (-20 - +90°C)	TMA 1	ppm/°C	55
Coefficient of thermal expansion (110 – 250°C)	TMA 1	ppm/°C	95
Glass transition temperature	TMA 1	°C	100 - 105
Decomposition temperature	TGA 1	°C	About 350
Weight loss at 300°C	TGA 1	%	<0.8 %

STORAGE CONDITIONS

Store **PROTAVIC® PNE 40826 A & B** in its syringe at room temperature (T < +25°C).

Under these conditions, the maximum period of storage is about 6 months.

In cold conditions (below 20°C), **PROTAVIC® PNE 40826 A & B** may develop a higher viscosity. In this case, allow the product to come back to its initial fluidity by standing at 20 - 25°C for about 1 hour.

PRECAUTIONS OF USE

Refer to enclosed safety data sheet.

PACKAGING

PROTAVIC® PNE 40826 A & B is supplied in 400 ml twin-tube syringes with mixer nozzle.

The information contained in this data sheet corresponds to the present state of our knowledge ; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover, the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.