# IMPREGNANTS IMPREGNANTY

IMPREGNANTS (M) WIRES

# 8. EDHESIVES ELFIX/ Epoxy adhesives/ ELFIX 510





### **Aplication:**

ELFIX 510 is suitable as adhesive for metals, glass, porcelain, various kinds of thermosetting materials, wood and others. It can be used for trickling, sealing, insulating etc. After curing ELFIX 410 can be treated respectively covered with coat.

## **Charakteristics:**

Two-component ELFIX 510 insulating paste is based on modified epoxy resin. It is cured at ambient as well as at elevated temperature. Its adhesion to other materials e.g. to metals, glass, wood, úorcelain, concrete and various kinds of thermosetting materials is very good. Its chemical resistance is good too and its curing shrinkage is small. Its adhesion to elastomeric materials, fat and dirty surfaces is poor. Electrical and mechanical properties of ELFIX 410 are good.

#### **Processing:**

Ap

Two (2) weight parts of yellow component and one (1) weight part of grey component are properly mixed together. This must be done very carefully to avoid the mixing of air bubbles. Pot life of mixture depends on mixture quantity and processing temperature.

P	proximative data are as tollows:					
	Quantity [g]	Temperature [°C]	Time [min.]			
		10 - 15	90 - 100			
	10 - 50	20 - 30	40 - 50			
		50 - 60	10 - 15			
		10 - 15	40 - 50			
	50 - 500	20 - 30	20 - 30			
		50 - 60	5 - 10			



F-11.1.22-31-2/11en

# IMPREGNANTS IMPREGNANTY

## 8. ADHESIVES ELFIX/ Epoxy adhesives/ ELFIX 510



IMPREGNANTS WIRES



**Curing:** 

Curing time depends on mixture quantity and curing temperature. Curing time for larger quantity is shorter.

Curing time at 20 - 30 °C, [h]	3 - 5	
Post curing time to reach optimal properties		
at 20 - 30 °C, [h]	12 - 24	
at 100 °C, [h]	1	

### **Properties of component:**

Viscosity 20 °C, [mPa.s]				
grey component	105			
yellow component	105			
30 min. after mixing	105			
Density 20 °C, [g/cm3]				
grey component	1,28 — 1,3			
yellow component	1,42 — 1,45			
Storage life of separate components in original packing:	1 year			

Properties of component:		
	Measured on test specimens cured for 48 hours at 25 °C	
	Tension strength, [MPa]	24
	Flexural strength, [MPa]	36
	Impact strength Charpy, [N.mm/mm2]	7,0
	Dissipation factor at 50 Hz/23 °C/50 % r.h. [%]	4
	Permittivity 50 Hz/23 °C/50 % r.h.	4,44
	Volume resistivity, [Ω .m]	1012
	Electric strength, [kV/mm]	14



The information provided herein accords with our knowledges about the subject on the date of publication. This information might be revised if new knowledges and experience will be available. The data provided fall within the normal range of product properties are related only to the specific material. These data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to set limits or used alone as the basis for design. The data are not intended for such material is suitable for your particular propriets. Since VURL a not anticipate all variants in actual end-use conditions, VURL makes no warranties and assumes no liability in connection with any use of this information. Nothing in this document is to be considered as a license to application or recommendation to infringe any patent rights.

F-11.1.22-31-2/11en

VUKI a.s., Rybničná 38, SK-831 07 Bratislava, Tel: 421 2 4488 2824, 49213 231, 49213 213, Fax: 421 2 4488 1041, email:info@vuki.sk, www.vuki.sk