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EPOXY FILLING COMPOUND 049

Two-component resin for filling and hermetisation of all components in electronics, telecommunications and radio-technics. It is characterized by excellent electric insulation and good adhesion to virtually all groups of materials. Epoxy resin is an excellent material with a very wide range of applications:

- for castings and covers to protect electrical components, such as coils, transformers, capacitors, resistors,
- cable ends connectors,
- excellent adhesion to a wide variety of substrates,
- good connection strength even in difficult weather conditions.

It retains its properties at high temperatures.

Basic parameters of filling compound:

Epoxy number	[mol/100g]	0.480-0.510
Density at 25°C	[g/cm³]	approx. 1.15
Viscosity at 25°C	[mPas]	20000-30000
Gelling time of 100g composition a	t a room temperature:	
Filling compound 49 + hardener (12ns*)		min. 33 minutes

Basic parameters of Hardener:

Amino number	[mg KOH/g,min]	1100
Density at 20°C	[g/cm³]	approx. 0.978-0.983

*-hardener amount per 100 parts by weight Filling compounds

Chemical resistance:

AGGRESSIVE ENVIRONMENT	Filling compound 049 + Hardener	Chemical
EXPOSURE TIME	1 month	hardening
Tap water	+	room tem
Sodium hydroxide 10%	+	+ – very g
Sodium hydroxide 30%	+	- – no res
Sodium hydroxide 40%	+	
Hydrochloric acid 10%	+	
Hydrochloric acid, concentrated	+	
Sulphuric acid 20%	+	_
Phosphoric acid 10%	+	_
Nitric acid 10%	+	_
Acetic acid 5%	+	-
Citric acid 10%	+	-
Sodium carbonate 10%	+	_
Common salt	+	_
Ethanol 45%	+	_
Ethanol 96%	+	_
Toluene	+	-
Xylene	+	_
Acetone	-	-
Ethyl acetate		-
Gasoline	+	-
Perhydrol 3%	+	-
Ammonia 10%	+]

resistance after g during 14 days at a nperature.

good resistance

esistance

For hardening at a room temperature, such proportion of hardener is applied:

Filling compound 049 - 100 parts by weight

- 12 parts by weight Hardener

SURFACE PREPARATION

Clean a surfaces from mechanical impurities with an abrasive paper, and then degrease (e.g. with acetone) - in the case of metals, apply chemical etching in appropriately selected bath.

PREPARATION

Thoroughly mix the components at a room temperature, in provided proportions. Prepare small portions that will be used within several minutes.

Hardening of the composition of Filling compound 49 + Hardeningat a room temperature must be executed in 7 days in order to obtain the full mechanical strength and in 14 days in order to achieve chemical resistance. During the application, prepare small portions that will be used within several minutes.

STRENGTH PARAMETERS

TESTED PARAMETER	Filling compound 049 + Hardener
Breaking stress, [MPa] PN-EN ISO 527-1:1998 PN-EN ISO 527 2:1998	40-60
Bending strength, [MPa] PN-EN ISO 178:2006	80-100
Compressive strength, [MPa] PN-EN ISO 604:2006	70-90
Hardness with the method of pressing a ball [MPa] PN-EN ISO 2039-1:2002	100-120
Deflection temperature according to Martens, [°C] PN-90/C-89025:1990	50-55

After hardening, within 7 days at a room temperature.

STORAGE

Store the filling compound in original, sealed packaging, in ventilated, dry storage areas, at a temperature of not more than 30°C. Do not expose the product to direct sunlight. It can also be stored in a storage tank made of stainless steel with a coil for heating. If the above storage conditions are kept, the shelf life is 2 years from the production date.

Regularly clean any equipment used to produce an epoxy coating, e.g.: ACETONE, do not allow to harden the remaining part of the composition on tools.



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The data and suggestions included in this material are based on own tests and are considered by us to be reliable. However, we cannot accept any liability for actions or losses resulting directly or indirectly from the use of our products. The user should check the quality, safety and features of the product before its application. NOTE: This information does not replace the Card of Characteristics of Hazardous Chemical.

The data contained in the technical information does not constitute the basis for guarantee claims.