

RFI shielding specialist  
for conductive adhesives and gaskets

**NEUSIL™ K684:** single component, cures at room temperature  
(conductive particles: silver-particles: Ag)

## using instructions

### 1. Processing instructions: for manual processing 5cc – 55cc cartridges

Twist of the red cartridges seal from the needle end, take off the red pressure cap and apply the **NEUSIL™ K684** paste to the cleaned metal substrate with the enclosed plunger.

In case grooves, for example, apply the paste in dots or cover the entire surface.

For smaller dosing quantities (tracks), a corresponding dosing needle may be used.

(needle inner diameter: 0,51, 0,84, 1,36, 1,85 mm). These are available on request.

The needle should be attached to the cartridge as soon as the needle-end seal is removed,

In order to avoid curing within the cartridge as the result of the penetration of the moisture.

**After each application of the conductive paste from the tube, the red cartridge seal must always be replaced immediately, so that the conductive paste does not cure !**

Dosing (application) is via a dosing system which used compressed air control or a plunger volume dosing control, or by hand using a manual plunger (supplied on request).

**Optimal processing occurs at an ambient temperature 22 °C (+/- 4°C).**

**Work should be carried out in a well-ventilated area, where there is an extractor, for example.**

### 2. Manufacture possibilities:

Dosing with pressure, manuell with enclosed plunger or with volumetrical Dosing machine (Datron, Kern-Liebers etc.).

### 3. Special properties:

**NEUSIL™ K684** is a electrical conductive, rubber-like, flexible and has excellent adhesion properties to many substrates. Electrical conductance remains stable even under major longterm mechanical loads such a vibration or periodic pressure loading such a temperature fluctuations.

### 4. Applications:

**NEUSIL™ K684** is used in EMI/ RFI shielding as a coating and sealing material.

Electrically conductive bonding of:

EMI/ RFI shielding gaskets - EMI/ RFI shielding gaskets

EMI/ RFI shielding gaskets - cases

EMI/ RFI shielding gaskets –optical filters

Bonding and joining of components on circuit boards, Solar etc.

### 6. Properties:

Excellent electrical conductivity. Excellent adhesive strength on most materials.

Rapid curing. Viscosity can be altered, from free-flowing to firm.

(no run on vertical surfaces).

**NEUSIL™** : registered mark of the company Firma NEUHAUS ELEKTRONIK

RFI shielding specialist  
for conductive adhesives and gaskets

**NEUSIL™ K684:** single component, cures at room temperature  
(conductive particles: silver-particles: Ag)

## 6. Curing:

The conductive paste requires humidity for vulcanisation (curing).  
The conductive paste cures in temperatures ranging from 5 °C to 40 °C.  
Optimal curing is achieved at an ambient temperature of 22 °C ( +/- 4 °C ).  
The higher the ambient humidity, the faster the conductive paste cures.  
The ambient humidity should be at least 30 %.  
The ambient humidity for optimal vulcanisation (curing) is 80 % (+/- 8 %).

## 7. Detergents:

Upon skin contact:  
Remove non-cured adhesive with benzine.  
Remove cured adhesive with pumice stone.  
For further informations, see safety data sheet.

## 8. Physiological properties:

**direct skin contact should be avoided.**

The paste is not dangerous to people or the environment once it has dried out  
For further informations, see safety data sheet.

## 9. Standard packs:

1000 ml aluminium-cartridges	approx. 2.400 g
310 ml aluminium-cartridges	approx. 800 g
55 ml plastic cartridges (EFD)	approx. 100 g
30 ml plastic cartridges (EFD)	approx. 50 g
10 ml plastic cartridges (EFD)	approx. 25 g
5 ml plastic cartridges (EFD)	approx. 10 g

## 10. Storage time:

**Plastic cartridge** (5 ,10, 30, 55 ml) production date: + 2 weeks  
we recommend after delivery prompt processing since the plastic cartridge breathable are and Paste this faster cures as in aluminum-cartridge

**Aluminum-cartridge** (310, 1000 ml):production date +12 weeks (3 months)

Store at temperature between: +10 °C to +28 °C.  
Protect from damp.  
Protect from direct sunlight.