

RFI shielding specialist
for conductive adhesives and gaskets

NEUSIL™ K682: single component, cures at room temperature
(conductive particles: silver coated copper-particles: Ag/Cu)

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™ K682** 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 21 °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, manuall with enclosed plunger or with volumetrical Dosing machine (Datron, Kern-Liebers etc.).

3. Special properties:

NEUSIL™ K682 is a electrical conductive, rubber-like, flexible and has exellent 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™ K682 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

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6. Curing:

The conductive paste requires humidity for vulcanisation (curing).
The conductive paste cures in temperatures ranging from +5°C to +40°C.
In an evaluation-temperature to over 50°C worsen taking the Mechanically characteristics.
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 after curing.
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.