

# KLEIBERIT 594 N

**Permanently elastic, neutral-curing silicone sealant for indoor and outdoor use with maximum movement accommodation of 25%.**  
*Oxim system*

## Fields of application

- Sealing joints and connecting joints in glass and window construction, metal construction, sanitary areas, kitchens, roof and truss work, heating, ventilation and air-conditioning technology
- KLEIBERIT 594 N is **not suitable** for underwater joints in aquarium construction, as mirror glue, for use on marble/natural stone, as well as in areas with direct contact to food.
- Not suitable** for use on plastics (e.g. PE, PP, and PTFE) on which silicone generally has bad adhesion as well as for surface bonding.

## Advantages

- Adhesion without primer to almost all work materials, e.g. glass, and glass-type substrates, ceramics, enamel, brickwork, concrete, wood, many synthetic materials, painted metal sheet and many other metals (incl. copper and stainless steel).
- Odour-free curing.
- Good resistance to water and weather
- Excellent ageing resistance
- Good resistance to ultra-violet rays
- Fire Classification (EN 13501) – Class E
- In a cured state, resistant against short term exposure to diluted acids and alkalis, gas, spirits, fat and grease as well as common cleaning agents.

## Properties of KLEIBERIT 594 N

**Base:** Neutral curing silicone rubber

**Specific gravity:**  $1.02 \pm 0.04 \text{ g/cm}^3$

**Consistency:** Pasty, stable

**Colors:** 594.0 - transparent

594.1 - white

594.2 - grey

594.3 - brown

594.4 - black

594.6 - light brown

**Working temperature:**

$+5^\circ \text{ C}$  to  $+35^\circ \text{ C}$

**Yield:**

Joint meter per 310 ml cartridge at following joint dimensions:

5 x 5 mm approx. 12 m

10 x 10 mm approx. 3 m

**Skinning time:** approx. 8 minutes

( $23^\circ \text{ C}$  / 50% relative air humidity)

**Hardening time:** approx. 3 mm in the first 24 hours  
( $23^\circ \text{ C}$  / 50% relative air humidity)

**Volume loss**

(EN ISO 10563):  $\leq 10 \%$

**Hardness Shore A:**  $21 \pm 5$

**Premissable total deformation**

(DIN EN ISO 10563): approx. 25%

**Temperature resistance:**

$-40^\circ \text{ C}$  to  $+180^\circ \text{ C}$

**Identification:** see our safety data sheet

## Application techniques

### Pretreatment:

The substrates to be bonded must be solid, dry, clean and free of any dust or grease (clean if needed).

The joint must have suitable, properly sized back filler (e.g. PE round cord, PE foil) to avoid three-sided adhesion. To avoid contamination and to achieve an exact joint, the edges of the joint can be covered with tape before primer application and sealing.

## KLEIBERIT 594 N

### Joint dimensions:

Joints to be sealed should at least have the following dimensions: 5 x 5 mm (interior applications) and 10 x 8 mm (exterior applications; wide x depth)

### Processing:

Cut nozzle according to the joint dimension. Apply sealant without bubbles with suitable hand, battery or air pressure pistol and immediately smooth with water or a neutral, non coloring, smoothing agent and a suitable smoothing tool.

Afterwards immediately remove surplus smoothing agent to avoid permanent streaking.

### Important:

**Contact to bitumen or tar containing substrates or substrates giving off plasticizers can result in loss of adhesion or discoloration.**

**During processing and curing, ensure unrestricted ventilation of emissions given off due to curing process.**

**Low temperatures and/or joints with a depth of more than 15 mm can considerably slow down curing.**

### **Packaging**

#### **KLEIBERIT 594 N**

Carton with 25 cartridges containing 310 ml each  
Carton with 20 aluminium pouches containing 400 ml each\*

Carton with 20 aluminium pouches containing 600 ml each\*

\* 594.0 available in transparent

### **Storage**

KLEIBERIT 594 N can be stored in the original factory sealed containers at +5°C to +35°C and 50% RH for approx. 18 months.

Version 24:09:2025 ai; replaces previous versions

#### **Waste Disposal**

Disposal of contents and/or containers should comply with all applicable federal, state and local regulations.  
Our containers are made of recyclable material.

#### **Service**

Our application department may be consulted at any time without obligation. The statements made herein are based on our experience gained to date. They are to be considered as information without obligation. Please test and establish for yourself the suitability of our products for your particular purposes. No liability exceeding the value of our product can be derived from the foregoing statements. This also applies to the technical consultancy service which is rendered free of charge and without obligation.