

KE-45

Features

One component
 Room temperature cure type (Oxime cure type)
 Flexible silicone rubber - from -40 to +180°C
 Good adhesion to glass,metals,ceramics,plastics etc.
 Excellent electrical properties

Applications

Adhesion or Sealing for Electrical parts etc.

Typical Properties

Item	Unit	Properties
Color		Black/Gray/Red/Translucent/White/Ivory
Viscosity	Pa·s	—
Tack-free time	min.	6
Specific gravity	g/cm ³	1.05
Hardness	Type-A	30
Elongation at break	%	350
Tensile strength	MPa	2.0
Lap shear strength	MPa	1.0(Aluminum)
Volume resistivity	TΩ·m	5
Dielectric breakdown strength	kV/mm	23
Dielectric constant 50Hz		3.0
Dissipation factor 50Hz		0.005
Thermal conductivity	W/m·K	0.21
Flammability	UL94	HB

Not specification

Packing

100g Tube(Black/Red/Translucent/White/Ivory)
 330ml Cartridge(Black/Gray/Red/Translucent/White/Ivory)

Usage

Surface cleaning

Using sandpaper or a solvent (toluene,xylene,etc), thoroughly clean the surface to remove all foreign matter such as rust, oil, dirt, and grime that may impair bonding. Use caution when cleaning plastics with solvents, as some solvents may damage certain plastics.

Application of primer

Apply uniformly using a brush or other tool. Be careful that no spots are missed, as there may be poor adhesion in those areas.

Tube type

Cutting the nozzle: Affix the attachment nozzle to the end of the tube and cut to the desired diameter.

Operation: Grasping the tube with your hand, squeeze out the contents.

Storage: Remove the nozzle after use and seal tightly. Completely remove residue within the nozzle using solvent.

Cartridge type

Cutting the nozzle: After cutting the nozzle, break the seal with a sharp object and insert the cartridge into a caulking gun.

Operation: Grasp the handle/trigger of the loaded caulking gun and squeeze to eject the contents.

Storage: If possible, use all at once. If some material remains, use the removed nozzle end as a plug and seal tightly resealed, the product can be stored for several days.

Handling precautions

- 1 KE-45 reacts with moisture in the air and begins to cure at the surface. Consequently, the cure speed will vary according to the temperature and humidity of the use environment, but KE-45 does not exhibit good deep-curing and is therefore not suitable for wide-area surface bonding. In addition, please note that if humidity exceeds 100% and water droplets form on the curing rubber, a hydrolytic reaction will precede the crosslinking cure reaction, which will reduce the strength of the post-cured rubber and remain surface tackiness.
- 2 Under sealed conditions KE-45 may corrode copper metals. Conduct a test using a small sample to determine whether the product is suitable for the intended application.
- 3 The electrical insulative properties will temporarily decline during the curing process. But in nearly all cases KE-45 exhibit its inherent electrical insulative properties once completely cured.
- 4 Please note that in some cases, the KE-45 may not cure if it comes in contact with flux or certain other materials.
- 5 Does not use KE-45 condensation cure products in a completely enclosed space.
- 6 KE-45 may yellow over time, but this does not negatively affect the characteristic properties.
- 7 Completely remove water, oil, dirt, and contaminants from the surface of the adherend. For certain substrates, use a primer as needed.
- 8 When using an air gun, do not exceed 0.3MPa.

Safety and hygiene

- 1 Be sure to provide adequate ventilation when using KE-45. During curing Methyl ethyl ketoxime gas is generated. If you experience any unpleasant symptoms please move to an area with fresh air.
- 2 Uncured KE-45 may irritate skin and mucous membranes, so avoid eye contact and prolonged skin contact. In case of accidental eye contact, flush with water for at least 15 minutes and see a physician. In case of skin contact, immediately wipe off with a dry cloth and wash with soapy water. Contact lens wearers should exercise adequate caution if uncured KE-45 enters the eye, the contact lens may become bonded to the eye.
- 3 When using, be careful not to rub the eyes with the hands. Please take appropriate precautions such as wearing safety glasses.
- 4 Keep out of reach of children.
- 5 For more information, please read the Material Safety Data Sheet (MSDS) . You can receive an MSDS from our Sales Department.

Storage precaution

- 1 Stored between 1 ~ 25°C, out of direct sunlight.

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