



## Insulation &amp; Water Proof Two-component Silicone Adhesive

# TE233

## DESCRIPTION

The room temperature curing, TE233 is a condensation curing silicone which cures with air moisture and it is best suited for coating, potting, sealing and encapsulation of electronic components.

TE233 has superior flowability and will bond to many clean surfaces without the aid of primers.

These surfaces includes plastics, metals, glass, ceramic and silicone rubbers.

Especially TE233 doesn't cause any damage to plastics, including PC(Poly-carbonate), PP, ABS, PVC etc, because it is de-alcoholized curing type.

Mixture ratio is the same as basic packing unit. [ Part A : Part B = 20Kg : 2Kg = 10 : 1 ]

After curing, like general silicone rubbers, posses excellent heat, cold, weather resistance.

As well as excellent electrical properties for use as sealant for electrical communications machinery, automotive parts and as potting material for small parts.

## KEY FEATURES

- ▶ Primerless adhesion to many substrates
- ▶ Absolutely no corrosion
- ▶ Superior flowability. Pourable, self-leveling product for potting, encapsulating and coating for circuit assemblies and LED parts
- ▶ Excellent heat and cold resistance. Retains elastomeric properties for long periods at temperature up to 200°C and down to -40 °C
- ▶ Excellent electrical properties. Even in harsh environments, TE233 is retains its electrical properties
- ▶ Excellent durability. High quality weatherability and even if used outdoors, dose not deteriorates
- ▶ Low viscosity. Flow characteristics allow rapid dispensing with automated equipment

## APPLICATIONS

- ▶ Electrical insulation, thin section potting, protective coating
- ▶ Water proof sealant as well as potting for electrical and communication machinery and for more good to LED parts
- ▶ Air tight sealant for materials to keep out water and dust
- ▶ Other parts requiring heat and cold proof properties and sealant of machinery and LED display module used outdoors

## TYPICAL PROPERTY DATA

(JIS K 6249)

BOFORE CURING	Part A #7	Part B #1
Appearance	Flowing paste	Flowing paste
Colours	Black	Clear
Cure Type	Alcohol	Alcohol
Specific Gravity at 25°C (g/ml) (standards ISO R 1183,DIN 53479,NMRPS 703)	1.30	0.98
Viscosity (cps)	2800	50

CURING	
Tack-free Time (min) (23°C, 50%)	120
Cured thickness after 24h (mm) (23°C, 50%)	10
Viscosity after mixing (cps)	1500





## TE233

CURED PRODUCT	
Specific Gravity at 25°C (g/ml) (standards ISO2781,ASTM D297,BS 903 Part A1)	1.25
Shore A hardness (Standards ISO R868,DIN 53505,ASTM D 2240, BS 903 Part A7,NFT 46003,NMRPS 471)	14
Dielectric strength (KV/mm) (standards NF C 26225,ASTM D 419,IEC 243)	23
Dielectric constant at 1 MHZ (standards NF C 26230,ASTM D 150,IEC 250)	3.6
Power factor at 1 KHZ (standards NF C 26250,ASTM D 150,IEC 250)	$2 \times 10^{-3}$
Volume resistivity,Ω.cm (standards NF C 26215,ASTM D 257,IEC 93)	$1 \times 10^{15}$
Thermal conductivity (W/mk)	0.4

\* Testing is performed in accordance with current EST material test methods, laboratory

\* Typical property data values should not be use as specifications

## SPECIFICATION

Typical product data values should not be used as specification. Assistance and specification are available by contacting YanTai E.S.T. silicone technooogy co.,LTD

## HANDLING AND SAFETY

When solvent are used, proper safety precautions must be considered toxic and must be used only in well ventilated areas.

## USABLE LIFE AND STORAGE

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.

CAUTION!	HANDLING PRECAUTIONS	FIRST AID MEASURES
1.FOR INDUSTRIAL USE ONLY 2.This product is neither terted nor representde as suitable for medical or pharmaceutical uses. 3.Do not use this product for other than its intended use,or user shall bear responsibility for any problems.	1.Wear suitable protective goggles, respirator and gloves. 2.Use only where an adequate ventilation system is available to sxhaust poisonous gases. 3.After handling,wash face and hands very thoroughly. 4.Keep out of reach of children. 5.Store in a cool,dark and dry place.	1.Inhalation:Remove to fresh air and get medical attention immediately. 2.Eye contact:Immediately flush eyes with plenty of water for at lest 15minutes.Get medical attention immediately. 3.Skin contact:Immediately flush skin with plenty of soop and water for at least15minutes.Get medical attention immediatly. 4.Ingestion:Induce vomiting and get medical attention immediately. 5.See material safety data sheet.