

**Product
Bulletin**

E40-407

100% reactive resin, which does not contain any solvent, diluents, plasticizers or additives that downgrade properties.

GENERAL DESCRIPTION

E40-407 is a high impact, low viscosity, room temperature curing, epoxy, casting, potting, and encapsulating system.

E40-407 is a filled system resulting in excellent dimensional stability, and extremely low shrinkage. E40-407 is characterized by exceptional resistance to impact, vibration and thermal shock.

Due to its high purity, E40-407 offers ultimate in physical, thermal and electrical insulation properties. The cured polymer exhibits excellent resistance to chemicals, moisture, solvents, and environmental exposure.

E40-407 is recommended for applications requiring optimum in over-all properties and where rigid or flexible wire leads protrude directly from encapsulant. This system eliminates microscopic cracking when leads are flexed. It also adheres extremely well to lead materials, such as vinyl, neoprene, natural rubber, etc.

E40-407 has found wide acceptance as an encapsulant for applications such as transformers, coils, chokes, solenoids, resistors, modules, micro-circuitry, capacitors, etc.

E40-407 has been formulated for ease in handling. The low viscosity aids in pouring, filling voids and air pockets. In addition, the fillers in E40-407 have been dispersed to minimize heavy settling.

APPLICATION

1. By weight, thoroughly mix 15 parts catalyst to 100 parts resin.
2. Due to the very low viscosity, vacuum de-aeration is not normally required.
3. Pour and allow to cure 24 hours at room temperature.

SPECIFICATIONS
HANDLING CHARACTERISTICS

Catalyst Number: Catalyst 407

Mix Ratio, Catalyst to Resin, by Weight: 15:100

Workable Pot Life, 100 g @ 25°C: 1.3 hrs.

Mixed Viscosity @ 25°C cps: 10,000

Recommended Cure: 24 hrs. @ room temp.

Color: Black

PHYSICAL CHARACTERISTICS

Shrinkage Linear, in / in: 0.50

Hardness, Shore D: 82

Specific Gravity, 25°C / 25°C: 1.52

Tensile Strength, psi: 10,000

Compressive Strength, psi: 22,500

THERMAL CHARACTERISTICS

Thermal Conductivity, btu / hr / ft² / °F / in: 2.9

Thermal Expansion Coefficient,

(cm / cm / °C · 10⁻⁵): 2.8

Heat Distortion, °C: 70

Operating Temperature Range, °C: -50 to +275

ELECTRICAL CHARACTERISTICS

Dielectric Strength, volts / mil: 450

Dielectric Constant, 60 Hz: 4.51

Dissipation Factor, 60 Hz: 0.01

Volume Resistivity, ohm · cm: 3.99 x 10¹⁴