



# PRODUCT INFORMATION

**HIGH TECHNOLOGY MATERIALS**

## MEREKO 3212 EPOXY RESIN FOR FIDUCIAL FILLING

### PRODUCT DESCRIPTION

Mereco **3212** series is a new class of epoxy based resins specifically designed for filling fiducial markings for optimal optical alignment. Mereco **3212** is a 1:1 mix ratio two-part epoxy resin which cures to a high strength system in only five minutes.

### TYPICAL PROPERTIES

#### Uncured Resin

##### BASE

Appearance	Black syrup
Specific Gravity	1.2
Viscosity, cps @ 25°C	16,000

##### ACTIVATOR

Appearance	Amber Syrup
Specific Gravity	1.1
Viscosity, cps @25°C	25,000

##### MIX

Mixed viscosity, initial mix 20,000 cps at 25°C

#### Cured Resin

Appearance	Black
Specific Gravity	1.15
Flexural Modulus, psi	$3.0 \times 10^4$
Thermal Shock	Passes
Operating Temperature	-60 to 145°C
Water Absorption (%)	0.6
Lap Shear Strength, psi Aluminum to Aluminum	1800

#### Electrical

Volume Resistivity	$1.8 \times 10^{12}$ ohms-cm
Dielectric Constant, MHz	3.43
Dielectric Strength	370 volts/mil

### PRODUCT BENEFITS

- ⇒ Easy 1:1 mix ratio
- ⇒ 5 minute cure
- ⇒ Supplied in 5 gram packs, 1 lb, 2 lb, 4 lb kits
- ⇒ Superior adhesion to aluminum and other metals
- ⇒ Excellent resistance to saponifiers, hot water, delimitone, KYZEN cyclic alcohols

### DIRECTIONS FOR USE

1. Measure out equal amounts by weight of 3212 Base and 3212 Activator into a suitable container for mixing.
2. Mix only as much adhesive as you can conveniently use in five minutes. (Make sure adhesive is thoroughly mixed).
3. Apply to the surface of parts to be adhered to.
4. Allow to cure 5-7 minutes at room temperature

### Packaging

MetrePaks	5 gram
1 lb. Kit	0.5 lb Base, 0.5 lb. Activator
2 lb. Kit	1.0 lb Base, 1.0 lb. Activator
4 lb. Kit	2.0 lb Base, 2.0 lb. Activator
Gallon Kit	8.0 lb. Base, 8.0 lb Activator
5 Gallon Kit	40 lb. Base, 40 lb. Activator

### STORAGE AND HANDLING

Mereco 3212 is best stored in the original container at temperatures from 0°C to 25°C. The product is uniform when packaged. Some settling may take place in storage beyond three months. Uniformity is restored with gentle stirring at 25°C. Read material safety data sheet before handling. Keep containers closed when not in use.

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