



## Anti-Static Epoxy Flooring System



### POLYPOXY 700:

Multi-purpose solvent-free Epoxy

### POLYPOXY 104 AS:

Super Conductive Primer



### POLYPOXY 107 AS:

Solvent-Free Anti-Static Self-Leveling Epoxy

### Copper Tape:

10 mm width  
1 mm thickness



## POLYPOXY 700

### Multi-purpose solvent-free Epoxy

#### General specifications:

- Two compounds, solvent-free Epoxy.
- It has superior mechanical properties and high chemical resistance when used to coat concrete surfaces.
- It is characterized by high pressure tolerance, abrasion resistance, friction, and adhesion strength to surfaces.

#### Technical specifications:

At temperature of 25 ° C

• Percentage of solids	100 %
• Density	1.09 g / cm <sup>3</sup>
• Viscosity	109 Krebs
• Mixing Ratio	(A:B) 1:2
• Pot life	1 hour
• Compressive stress without fillers	Kg / cm <sup>2</sup> 900
• Maximum compressive stress with fillers	Kg / cm <sup>2</sup> 1300
• Bending resistance without fillers	Kg / cm <sup>2</sup> 550
• Wear and abrasion resistance	0.5 – 5 cm <sup>3</sup> / 50 cm <sup>2</sup>

#### Areas of use:

- POLYPOXY 700 is used as a protective paint for concrete, iron, and wooden surfaces, and as a high-quality adhesive for concrete, stones, wood, and most metals.
- POLYPOXY 700 is used after adding fillers as a non-shrinkage epoxy mortar to fill gaps and make self-leveling epoxy floors or leveling with a trowel or helicopter over the surface of concrete slabs subjected to high mechanical stresses and exposed to chemicals.
- Epoxy mortar is used for bonding ceramic tiles and bridge abutment cushions, restoring concrete structures, filling wide cracks, leveling crushed concrete surfaces, and restoring expansion joints.

## **Directions for Use:**

- The surface must be completely dry, clean, and free of impurities and loose parts.
- A primer layer of polyoxy 701 shall be painted.
- The paint is applied by roller, spray, or brush after ensuring a good mixing of the two compounds.

## **Epoxy mortar:**

- Self-leveling mortar or repair mortar without primer can be used, provided that the mixing ratio of fillers to epoxy does not exceed 1:4 by weight.
- In the case of epoxy mortars with high proportions of fillers, a primer layer of liquid epoxy is applied to ensure consistency between the surface and the epoxy mortar, provided that the epoxy mortar is spread over the primer surface before it dries.

**Packages:** Pails 1 – 4 Kg

**Shelf life:** Two years in closed containers

## **General safety guidelines:**

- Product is solvent-free, Non-toxic and non-flammable.
- Protective glasses and gloves must be used when applying the product.
- A respirator must be worn in confined spaces.
- After Application, stains on the skin must be removed with hand cleaner or soap and water.
- In case of eye contact, the eye should be washed with plenty of water and a doctor should be consulted.
- If swallowed, seek medical advice.

**For more details.....our technical department is at your service**

## POLYPOXY 104 - AS

### Super Conductive Primer (ESD)

#### General description:

- A water-based, two-components epoxy when mixed, it gives a good electrical charges conductive surface, on which copper strips are fixed to increase electrical conductivity.
- The primer conductivity ranges from  $10^3 \sim 10^5$  ohms.
- It is used as a conductive layer for electrical charges to increase the conductivity between copper strips in anti-static floors.

#### Technical specifications:

At temperature of 25°C

• Solid Contents	60 ± 2 %
• Density	1.105 ± 0.01 g / cm <sup>3</sup>
• Viscosity	85 Krebs
• Pot life	45 minutes
• Initial dryness	60 minutes
• Complete dryness	24 hours
• Mixing ratio (A:B)	1:4
• Rate of use	100 ~ 150 g/ m <sup>2</sup>

#### Advantages:

- Ease of use, as it is applied with a roller, brush or spray gun.
- It has a high conductivity capacity for static charges.
- Ready to use immediately after mixing.

## Chemical Industries for Construction “POLYMAR”

Multipurpose Epoxy - Joint Sealants & Polyurethane - Modern Granulite Paints - Epoxy Mortar - Anti-static Epoxy - Insulation - non-shrinking mortar - Concrete Admixtures - Adhesive Compounds - Anti-corrosive - Plastering & Finishing - Repair & Strengthening - Road Marking Paints - Sports Flooring - Solvents

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### **Directions for use:**

- The surface must be completely dry and clean, free of impurities and loose parts.
- A coat of POLYPOXY 700 shall be applied in the case of upper floors.
- A coat of POLYPOXY 701 shall be applied in the case of basements.
- The copper strips are mounted in equal distance after the POLYPOXY 701 has completely hardened, at least 24 hours.
- POLYPOXY 104 - AS is applied after mixing the two components well using a roller, spray, or brush.
- Two coats of the product must be applied 24 hours apart to give the required conductivity.

**Packages:** Pails 1 – 5 Kgs

**Shelf life:** One year in closed containers

### **General safety guidelines:**

- The product contains water and is not flammable.
- Protective glasses and gloves must be used when using the substance.
- After Application, stains on the skin must be removed with hand cleaner or soap and water.
- If the eye is exposed to liquid epoxy, it should be washed with water for ten minutes, then consult a doctor.
- If swallowed, seek medical advice.

The company disclaims responsibility for the results in case of failure to follow operating instructions, misapplication, or storage.

**For more details.....our technical department is at your service**

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**[www.polymar-eg.com](http://www.polymar-eg.com)**

## POLYPOXY 107 AS

### Solvent Free Antistatic Epoxy

#### General description:

- A two-component resin and hardener mixed with special fillers to give an epoxy self-leveling layer that conducts electrical charges, preventing the dangers of electrical sparks that result from electrostatic charges.
- It gives an earth leakage resistance ranging from  $10^6$  to  $10^9$  ohms measured according to ASTM standards (F150) which comply with Electrostatic Discharge (ESD) Association Standard Test Method (ANSI/ESD STM 7.1) for protection of ESD Susceptible items.
- High resistance to dynamic loads.
- Operating duration is 50 minutes (at 25°C). The duration is inverse proportional with temperature.

#### Technical specifications:

At temperature of 25°C

• Color	Gray and other colors
• Density	$1.3 \pm 0.1 \text{ g / cm}^3$
• Mixing ratio	4:1
• Leak resistance	$10^6 \sim 10^9$ ohms
• Pot life	40 ~ 60 minutes
• Rate of use	2 kg/ m <sup>2</sup> for ~1.5 mm thickness
• Tensile strength	25 N/mm <sup>2</sup>
• Hardness	82
• Adhesion strength	4 N/mm <sup>2</sup>
• Compressive strength	55 N/mm <sup>2</sup>

#### Areas of use:

- Hospitals, Operating rooms, Intensive care rooms and laboratories equipped with electronic devices.
- Floors of computer rooms, Stores containing explosive material.

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### **Directions for use:**

- POLYPOXY 107 AS shall be applied on clean, steamrolled floors.
- In the event that the surface is not flat, a layer of POLYPOXY 700 epoxy sealer is applied, then the surface is leveled using POLYPOXY PUTTY.
- A layer of POLYPOXY 700 with silica can also be applied to obtain a flatter surface.
- After 24 hours, POLYPOXY 104 AS primer shall be applied to the concrete surface as a conductive layer.
- After 24 hours from solidification, a network of copper strips is installed at equal distances, and the free ends of the strips are connected upward, bent at an angle of 90°, and connected to a ground resistance of no less than  $10^4$  ohms.
- Apply a layer of POLYPOXY 104 AS primer and leave it for 24 hours.
- The final layer of POLYPOXY 107 AS is applied after mixing the two components well mechanically.
- The product should be applied using the appropriate tools for each layer.
- Typically, the thickness ranges from 1.5 mm up to 4 mm according to the specifications.

**Packages:** Pails 5 – 20 Kgs

**Shelf life:** One year in closed containers (away from direct sunlight)

### **General safety guidelines:**

- Non-toxic and non-flammable.
- Protective glasses and gloves must be used when using the substance.
- After Application, stains on the skin must be removed with hand cleaner or soap and water.
- If the eye is exposed to liquid epoxy, it should be washed with water for ten minutes, then consult a doctor.
- If swallowed, seek medical advice.

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