

## Technical Data Sheet

### ManaFloor EPF-403

#### Product description:

Two component solvent free conductive epoxy floor coating

#### **Field of application and properties:**

ManaFloor EPF-403 is a solvent free epoxy, especially designed for industrial conductive floor coatings. Conductive flooring systems are used in industries where static control is required. These types of coatings carry static charges to a ground quickly and efficiently as to prevent accidental discharge and ignition. Frequent contact between tools and equipment, or dropping the tools on the floor, will cause spark and ignition. This coating contains special materials to conduct the electricity to the earth. Its curing mechanism is done through reaction between two components.

Main characteristics are:

- Good conductivity
- High abrasion resistance
- Good mechanical properties
- Excellent self leveling properties
- Good acid and alkali resistance

- **Technical data:**

Type:	Epoxy/Polyamine
Color:	White /Limited Colour
Number of components:	2
Texture:	Gloss
Mixing ratio:	100 / 20

Volume solid:	100
Specific gravity:	1.65 ±0.05
Dry film thickness	800-1200
Touch dry at 25° C:	8 Hrs
Fully cured at 25° C:	7 days
Min over coating time (25° C):	12 Hrs
Max over coating time (25° C):	72Hrs
Thinner:	None
Pot life (20° C):	1 Hr
Shelf Life (20° C):	1 Year

### Specifications of Epoxy resin

Tensile strength after 7 day		15 MPa
Elongation at break		8-10%
Hardness	ASTM D2240	80 (shore D)>
Tensile strength	ASTM D638	>27 (MPa)
Tensile modulus	ASTM D638	>2700 (MPa)
Flexural strength	ASTM D790	>80 (MPa)
Flexural modulus	ASTM D790	>2100(MPa)
Heat deflection temperature	ASTM D648	85 C >
Electrical Resistant (surface)	ISO-2882	1*10 <sup>6</sup> -1*10 <sup>9</sup> (OHM)

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### **CONDITION OF APPLICATION:**

Application Temp: 5-40° C, Max Moisture: 80%

### **Surface preparation:**

Concrete substrates must be prepared by mechanical power tools, weak concrete must be removed and surface defects such as void must be fully exposed and repaired.

The concrete or cement substrate has to be leveled in order to achieve an even surface. Dust, dirt, oil, grease must be completely removed from all surfaces before application of the product.

### **Method of application:**

After surface preparation, first stir the part A well; note that due to high density of part A, it should be fully mixed to avoid sediment particles, then add part B or hardener to first component in recommended proportion and mix for 3 min. After mixing apply coating on the conductive primed surface by using roller, brush or knife.

### **STORAGE CONDITIONS:**

Store in original sealed containers in a dry and cool warehouse between 5° C and 30° C.