Kemapoxy 115

Antistatic Epoxy Flooring System

Description:

- **KEMAPOXY 115** is a two component primer and three component top coat system based on epoxy, for antistatic floors.
- The system consists of the following products:
  - **KEMAPOXY 115 (PS) .** Antistatic primer coat**.**
  - **KEMAPOXY 115 (S) .** Antistatic surface topping.
  - **Conductive Copper strips .**
- The system complies with DIN 51953 & B.S 2050.

Fields of Use:

- It is especially suitable for electronic labs, hospitals, computer rooms, manufacturing and assembling areas of electronic appliances, storage rooms subjected to high explosion risks, and for all flooring subjected to electrostatic charges.

Advantages:

- **KEMAPOXY 115** is used as an antistatic coating system on non-conductive surfaces,concrete cement mortar etc.

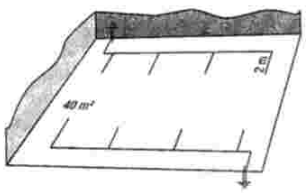
Technical Data :(at 25 ºC)

Characteristic	Unit	Kemapoxy115(PS) 2 Component	Kemapoxy115(S) 3 Component	Complete system
Colour				Black
Density	Kg/l	1.1	1.37	
Mixing ratio by weight		2 : 1	2(A) : 1(B) : 2(C) 1.5(A+B) : 1(C)	
Pot life	Minute	60	60	
Initial setting time	hour	8	12	
Final setting time	hour	24	24	
Full hardness	day	7	7	
Min application				
Min temperature	C°	10	10	
Leakage resistance	0hm			$5*10^4 - 10^6$
Heat resistance	C°			Damp : 80 Dry : 120
Compressive strength (28 days)	Kg/cm_2			520
Rate of use	Kg/m^2	0.25	4 ± 0.5	
Chemical resistance	Excellent resistance to diluted acids, alkaline, detergents, disinfectants, grease, saline solutions, petrol.			

METHOD OF APPLICATION:

PREPARING OF THE SUBSTRATE:

- The substrate must be capable of resisting the intended mechanical stresses without damage (concrete classification according to DIN 1045 B 25) .
- It must be dry (Concrete 4 % moisture, laid at least 4 weeks), clean, free of dust,(provide a good key),as well as free of all substances which could act as release agents. In addition, it must be ensured that no damage can occurs due to rising dampness.



(Method of installing copper strips)

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APPLICATION STEPS:

- Remove concrete laitance e.g. by sand blasting, or by grinding then remove dust carefully.
- Prime with **KEMAPOXY 150 JM**.
- Apply the **KEMAPOXY 115 (PS)** by roller.
- Install the earth connections.
- Apply a coating **of KEMAPOXY 115 (S)** not less than 3mm. thick using a serrated trowel.
- The user must provide the possibility of connecting the flooring to an earth potential, the earth contact resistance of the earth connection must be not less than 4 Ohm.
- Clean tools by **KEMSOLVE 1**.

MIXING:

- The two components, which are supplied, packed in accordance with their mixing ratios, should be thoroughly mixed using a slow speed electric mixer such as power drill fitted with a steamer, and revolving at around 300 r.p.m.
- Smaller amounts can be mixed by hand. The mixture is then transferred to a larger clean vessel.
- For 3 component top coat add component **C** to the mixture **(A+B)** gradually with continuous stirring until homogeneity.

POT LIFE:

- Any pot life mentioned, initially always holds for a 4 kg container, at a temperature of 20°C for the fresh mix.
- The pot life is greatly dependent upon the temperature and the size of the batch
- The amount of materials mixed, should not exceed the amount that can safely be used within the pot life.
- If the curing reaction has proceeded too far, this will interfere not only with the ease of processing, but also with the end properties of the cured material.
- Material which has thickened due to the curing reaction having proceeded too far, should not be thinned down, it should be discarded and fresh material must be used.

INSTALLATION OF CONDUCTIVE STRIPS:

- Conductive strips are bonded by **KEMAPOXY 115 (PS)** coating, running parallel to the wall.The free ends of these strips must be guided upwards to the earthing connection perpendicular to the wall and bent at an angle of 90 degrees.
- For surface of up to 100m2, at least two earth connection strips must be placed opposite to each other, as far apart from each other as possible, maximum distance is 10m.
- If the floor surfaces are separated, the individual sections must be earthed separately, or conductively linked to the neighboring field by means of copper strands.
- To achieve greater stability of the earth connections in the wall area, plastic sheeted copper strands ($4mm^2$), can also be used instead of conductive strips. For this purpose remove approx. 20cm. of the sheeting from one end. Splice the copper wires and place them in a fan shape onto the **KEMAPOXY 115 (PS)** coating. The fine wires can also be fixed in place by sticking the conductive strip over them. Conductively link the other free end earth connection.

N.B: A Sample executed from the kemapoxy 115 system must be tested and make sure that it conforms to the standard specification before execution the entire surface.

Safety Precautions:

- Application should be carried out in well ventilated place.
- Gloves, protective clothing and eye goggles should be worn during application.
- Skin contaminations should be immediately cleaned with soap and plenty of water. Don't use solvent.
- If the material is splashed into the eyes, they should be immediately washed with water and then report to an eye specialist.
- Do not eat or smoke during application.

Storage:

- 2 years under suitable storage conditions and in closed containers.

Packages:

- **Kemapoxy 115 (PS)** Kits (A + B) 3 kg .
- **Kemapoxy 115 (S)** Kits (A + B + C) 5 kg .

(other packages on request)

- Follow the mixing ratios ,by weight, indicated on the package.

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