

## **Experiment No. 5**

### **Statement:**

Understanding the application of two-part sealants.

### **Desired Learning Objectives**

2. This practical aims to understand the application of sealing compounds

- (a) Trainees would be able to understand types of sealing compounds.
- (b) Trainees will be able to apply and join two surfaces by using these compounds.
- (c) Practice safe storage for soaking / curing period.

### **Equipment / Material Required**

3. The following materials are required during practical:

- a) Metal Pot
- b) Two-part sealing compound
- c) Brush / Stick
- d) Plastic jar
- e) Apron
- f) Gloves
- g) Mask

### **Safety Precautions**

4. During the practical, Trainees are to ensure following precautions: -

- (a) Don't Touch with Bare hands. Always use the gloves.
- (b) Don't smell or taste the sealants.
- (c) Sealants are to be kept isolated.
- (d) Base sealing compound and the accelerator requires separate packaging to prevent cure prior to application.
- (e) Carefully mix the material to prevent entrapment of air in the mixture.
- (f) Base sealing compound and the accelerator are mixed by combining equal portions.
- (g) Use the sealants within pot life.
- (h) Do not use accelerator, which is dried out, lumpy, or flaky
- (i) Heat should not be applied to any faying surface sealant

### **Procedure**

The following steps provide a method for application of two-part sealants:

- (a) After determining the proper amount of base sealant compound and accelerator, add the accelerator to the base sealant compound.
- (b) Immediately after adding the accelerator, thoroughly mix the two parts by stirring or folding, depending on the consistency of the material.

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- The image shows the packaging for Magic Epoxy Steel, a two-part epoxy product. The central box is white with blue and purple accents. It features a cartoon character with a star on his forehead. A large blue stamp reads "7-MART.PK ORIGINAL" with "100% GUARANTEED" around it. Text on the box includes "ASTONISHING AMERICAN INVENTION", "magic EPOXY STEEL", "TOUGH DURABLE METAL MENDER & FILLER", and "NOW EXTRA STRONG". Two tubes, labeled A and B, are shown on either side of the box. They are white with green and black accents and also feature the cartoon character. A caution label on the box reads: "CAUTION: MAY CAUSE SKIN IRRITATION. HARMFUL IF SWALLOWED. See caution on Back".

### Conclusion:

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