



REMR Material Data Sheet CM-MM-1.1

EPOXY MODIFIED MORTAR: SIKA ARMATEC 110

1. NAME

Sika Armatec 110

Consistency Slurry mortar
 Application 0.020 inches minimum
 thickness
 Color Concrete gray

2. MANUFACTURER

Sika Corporation
 P.O. Box 297
 Lyndhurst, NJ 07071
 Telephone: 201-933-8800

The manufacturer states that the chemical and physical properties of the material give these advantages:

- 24-hr open time
- Costs less than conventional bonding agents
- Contains corrosion inhibitors
- Does not create a vapor barrier
- Easy to use, water cleanup

3. DESCRIPTION

Sika Armatec 110 is a cement-based mortar that contains an epoxy resin as a secondary binder component. Sika Armatec 110 is available in premeasured, simple-to-mix, three-component units, easy-to-apply, formulated to meet bonding and corrosion requirements. Components A and B contain 169.7 fluid ounces of epoxy resin binder, and Component C is 46.82 pounds of cement and specially selected filler specifically formulated to create a successful reaction with the epoxy.

6. MANUFACTURER'S GUIDANCE FOR APPLICATION

Sika Armatec 110 can be spray-applied or broom-applied for ease of application on large areas, or brush-applied for smaller repairs. Gravity-fed hopper gage or pressure-pot equipment can be used for spraying.

4. USES

Used as a structural bonding agent for forming, overlays, concrete rehabilitation, and shotcreting. The material also provides protection against corrosion of reinforcement steel.

7. CORPS OF ENGINEERS' EVALUATION

| <u>Properties</u> | <u>Test Method</u> | <u>Test Results</u> |
|--|--------------------|---------------------|
| Bond strength to concrete, psi, 30-min open time | ASTM C 882 | >2,800 |
| Bond strength to concrete, psi, 24-hr open time | ASTM C 882 | 2,240 |
| Bond strength to concrete, 6-hr open time, 90°F | | 2,100 |

5. MANUFACTURER'S TECHNICAL DATA

Pot life 90 min
 Contact time
 (open time) 24 hr

8. ENVIRONMENTAL CONSIDERATIONS

Reasonable caution should guide the preparation, repair, and cleanup phases of activities involving potentially hazardous and toxic chemical substances. Manufacturer's recommendations to protect occupational health and environmental quality should be carefully followed. Material safety data sheets must be obtained from the manufacturers of such materials. In cases where the effects of a chemical substance on occupational health or environmental quality are unknown, chemical substances should be treated as potentially hazardous toxic materials.

9. AVAILABILITY & COST

This material is marketed throughout the United States.