



# SR-2000

## Southeast Resins SR-2000 Spec

### Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

#### SECTION 02985

#### CONCRETE PAVEMENT REPAIR

Specifier Notes: This section covers Southeast Resins "SR-2000" Concrete and Asphalt Repair. Consult Southeast Resins for assistance in editing this section for the specific application.

If the material is to be used for structural concrete repair, change the section number and title to: SECTION 03930 - CONCRETE REPAIR. If the material is to be used for asphalt pavement repair, change the section number and title to: SECTION 02970 - ASPHALT PAVEMENT REPAIR.

If the section number and title are changed, revise the first part of the page number to be the same as the section number.



# SR-2000

## Southeast Resins SR-2000 Spec

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

Specifier Notes: Edit the following list as required for the project.

- A. Concrete pavement repair.
- B. Structural concrete repair.
- C. Asphalt pavement repair.

#### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 02740 - Flexible Pavement.
- B. Section 02750 - Rigid Pavement.
- C. Section 03300 - Cast-in-Place Concrete.

#### 1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM C 39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
- B. ASTM C 1059 - Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.
- C. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
- D. ASTM D 648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
- E. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.



# SR-2000

## Southeast Resins SR-2000 Spec

### 1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including surface preparation and application instructions.
- C. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- D. Warranty: Submit manufacturer's standard warranty.

### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
  - 1. Store materials in clean, dry area in accordance with manufacturer's instructions.
  - 2. Keep containers sealed until ready for use.
  - 3. Protect from heat and direct sunlight.
  - 4. Do not store above 100 degrees F.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

### 1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply repair material if air or surface temperature is below 35 degrees F or above 120 degrees F.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

Southeast Resins, LLC., 2908 Clairmont Avenue South, Birmingham, Alabama, 35205 Phone (205) 241-5100. Fax (205) 241-5135. Web Site [www.southeastresins.com](http://www.southeastresins.com). E-Mail [info@southeastresins.com](mailto:info@southeastresins.com).



# SR-2000

## Southeast Resins SR-2000 Spec

### 2.2 MATERIALS

- A. Repair Material: SR-2000 Concrete and Asphalt Repair.
  - 1. Description: Two-part polyester resin.
  - 2. Typical Cured Resin Properties:
    - a. Compressive Strength, With Aggregate, ASTM C 39: 6,800 psi at 10 days.
    - b. Tensile Elongation, ASTM D 638: Greater than 40 percent.
    - c. Tensile Modulus, ASTM D 638:  $1.38 \text{ psi} \times 10^5$ .
    - d. Flexural Strength, ASTM D 790: 1,500 psi.
    - e. Flexural Modulus, ASTM D 790:  $3.73 \text{ psi} \times 10^5$ .
    - f. Bond Strength, ASTM C 1059: Exceeds Type II.
    - g. Heat Distortion, ASTM D 648: 110 degrees F.

Specifier Notes: If a dark surface is required, specify black slag aggregate instead of blasting sand. Consult Southeast Resins for more information.

- B. Aggregate: #30 grit, bagged, clean, dry, blasting sand.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

Specifier Notes: Specify Architect or Engineer.

- A. Examine surfaces to receive repair material. Notify [Architect] [Engineer] of conditions that would adversely affect application. Do not proceed with surface preparation or application until unsatisfactory conditions are corrected.

#### 3.2 SURFACE PREPARATION

- A. Prepare surfaces in accordance with manufacturer's instructions.
- B. Ensure surfaces are clean, dry, and sound.
- C. Remove dirt, dust, oil, grease, coatings, loose scale, broken pieces, and unsound materials.



# SR-2000

## Southeast Resins SR-2000 Spec

### 3.3 APPLICATION

- A. General: Mix, apply, and finish repair material in accordance with manufacturer's instructions.
- B. Primer:
  - 1. Mix resin and activator to form primer.
  - 2. Apply primer to surfaces of repair area, ensuring voids are filled.
  - 3. Allow primer to become tacky.
- C. Filler and Repair Slurry:
  - 1. Mix resin, activator, and aggregate to form slurry.
  - 2. Add clean, dry, pea gravel when repairing deep potholes and spalls.
  - 3. Apply slurry onto repair area.
  - 4. Apply required finish to surface.

Specifier Notes: Specify nonslip topcoat and sealer, if required.

- D. Nonslip Topcoat and Sealer: Apply slurry with broadcasted sand to provide nonslip surface.

### 3.4 PROTECTION

- A. Protect completed repair from damage until traffic is allowed.

**END OF SECTION**