

SPRAYROQ SR-6100

GENERAL:

SR6100 is a trowelable, structural epoxy that is designed primarily to act as a small job repair material but may also be used on large scale rehabilitation projects in the wastewater and industrial applications market. SR-6100 is a two-part component system that will bond to a wide range of surfaces. It is a highly desirable solution when exceptionally strong structural bonds are desired.

SURFACE PREPARATION:

Any surface, regardless of age of original application, must be prepared properly to receive the SR-6100 application. Generally, the substrate must be thoroughly cleaned, dried and dust free. Moisture and other hydrocarbon-based contaminants will cause pinholing.

- 1.** After the surface is cleaned, it is necessary to stop any active infiltration by using a chemical grout.
- 2.** Once all infiltration is stopped, dry the structure to below 18% moisture content.
- 3.** Using 40 to 60 grit sandpaper, aggressively sand the area around the damaged area no less than 2" past the edge. Remove the dust created by sanding.
- 4.** Mix SR-6100 in small amounts, approximately a quart at a time. 2:1 Ratio.
- 5.** Apply SR-6100 to the repair area and work into the surface with a putty knife or plastic body putty blade of the appropriate size.
- 6.** Apply the material in lifts (applications) of no more than 125 mils on a vertical surface. Excessive quantities of any epoxy may cause the epoxy to sag or run down the wall as the curing process begins. This is due to the exothermic process which takes place during the epoxy curing process.
- 7.** Curing will take approximately 8-12 hours, based upon temperature and thickness of the material.
- 8.** Should another application be necessary to bring the structure to its desired thickness, the recommended recoat time is 12 hours. Follow steps 1-6.

Should there be any technical questions, contact Sprayroq Inc. at 800-634-0504.

LIMITED WARRANTY:

Because storage, handling and application of these materials are beyond our control, we can accept no liability for the results of their use. Our liability is limited only to replacement of any material proven defective in manufacturing for one year from the date of installation.

SR-6100 TROWELABLE EPOXY
Physical Performance Properties

ASTM D 638	Tensile Strength	>3,200 psi	(TRI)
ASTMD638	Tensile Modulus	> 180,000 psi	(TRI)
ASTM 0790	Flexural Modulus	>1,700,000 psi	(TRI)
ASTM D 3164	Bond -Lap Shear	>1,600 psi	(TRI)
ASTM D 695	Compressive Strength	>9,000 psi	(TRI)
ASTMD2240	Shore D Hardness	85 Shore D	(SR)

(TRI)-Texas Research Institute -Austin | (SR) - Sprayroq, Inc. - Birmingham

SR-6100 TECHNICAL DATA SHEET

DESCRIPTION

SR6100 is a heavy-duty non-shrink epoxy grout for installation of industrial equipment. When prepared and installed as recommended, SR6100 offers the following advantages:

- Long service life
- High resistance to chemical attack
- High resistance to physical degradation
- Exceptional dimensional stability
- Reduced downtime

USES

- Destructive Testing Repairs
- Pinhole Repairs
- Concrete Repair
- Concrete Surface Protection

PROPERTIES

Gel Time*	1 1/2- 2 hours
Initial Cure* (approx. 90%)	24 hours
Final Cure*	5 - 7 days
Density, lbs/cu ft	122
Compressive Strength, PSI	14,100
(ASTM-C579, Method B) Modulus of Elasticity, PSI	1,400,000
(ASTM-C579, Method B) Shrinkage (ASTM C-883)	Passes
Adhesive Strength: Concrete to Concrete (ASTM C-882)	Concrete Fails
Steel to Steel, PSI (ASTM-D1002)	3400
Flexural Strength, PSI	6000
Tensile Strength, PSI (ASTM D638)	6800
Shelf life (unopened), min	1 year



Gel and cure characteristics were determined at 70°F. As with all epoxy polymers, the speed of gel and cure reactions is faster at higher temperatures - and conversely, slower at lower temperatures.

CURING

Initial curing time: 24 hours

Final cure: 5 days

SURFACE PREPARATION

(A) Surface of substrates must be clean and sound.

(B) Remove grease, oil, or other foreign material with acetone, wire brushing, or sandblasting. Acid etching the surface is acceptable if followed by thorough flushing with clean water. Surface must be dry before applying. Below 18% moisture content.

MIXING

Combine 2 Parts SR6100 Resin with 1 Part SR6100 Hardener by volume. Mix thoroughly for several minutes making sure all resin is blended with hardener.

PACKAGING

Kit: Pails

Resin: LB 35

Hardener: LB 17.5

HANDLING PRECAUTIONS

CAUTION: For Industrial Use Only. Keep Away from Children.

SR6100 contains epoxy resin which is harmful if swallowed. After prolonged exposure it may irritate skin and cause sensitization and/or dermatitis.

SR6100 Hardener contains organic amine compounds which are harmful if swallowed. After prolonged exposure or repeated skin contact, it may cause irritation, sensitization and/or dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Irrigate promptly with clean water for 15 minutes and call a physician.

SKIN CONTACT: Wash with soap and water promptly.

INHALATION: Remove to fresh air and provide oxygen if necessary.

INGESTION: Call a physician at once. Give milk or white of egg beaten with water. Then give a tablespoon of salt in a glass of warm water to induce vomiting.

PROTECTION PROCEDURES

If used in a confined or an enclosed area, use an air supplied mask or respirator with canister for organic vapors and provide mechanical exhaust ventilation. Use protective gloves, safety glasses, and protective clothing. Avoid contact with skin and clothing. Contaminated clothing should be laundered before wearing again. Contaminated shoes should be thoroughly cleaned before wearing again.

WARRANTY

Because the storage, handling and application of these materials are beyond our control, we can accept no liability for the results of their use. Our liability is limited only to replacement- of any material proven defective in manufacture. We suggest users try small applications to determine the suitability of the product for their intended use.