

IMPORTANT INFORMATION

- Designed for Installation at Full Saw-Cut Depth in Control Joints or 2" Minimum in Joints Exceeding 2" in Depth
- Dual-Component Pump or Dual Cartridge Units Required to Dispense
- Pre-Mix Part "A" (Gray) Prior to Pouring Into Pump Tank
- **DO NOT USE COMPRESSIBLE BACKER ROD IN SAW CUT JOINTS!**

What is RS 88-SG?

Spal-Pro RS 88-SG is a rapid setting, two-component polyurea polymer liquid of 100% solids content developed to fill and protect joints in industrial concrete floors that are subject to hard wheels and heavy loads. Its primary function is to support such traffic and support joint edges. Spal-Pro RS 88-SG is designed for use in areas where final temperatures are from 40°F (4°C) to +120°F (49°C)

Material Storage

Store RS 88-SG in a cool area. Do not allow to freeze. RS 88-SG has a minimum shelf life of 6 months for bulk or dual-cartridge units. If material sits for over one month, rotate material monthly to minimize settlement.

Checking Job Conditions

Floors should have a minimum cure of 30 days prior to joint filling. Since all concrete shrinks for months, and shrinkage results in the widening of joints, filling should always be delayed for as long as the schedule allows. If filling in refrigerated areas (coolers), the room should be stabilized at its final operating temperature for 7 days+. Joints should be dry, and work area should be well ventilated.

Tools and Equipment

RS 88-SG can be dispensed only through power dispensing pumps or dual cartridge kits. Other equipment needed includes, but is not limited to, proper safety gear (See MSDS), drill and mixing paddle (Jiffy or equal-no flat mortar paddles), solvent for cleanup, razor scraper, etc.

Installation in Food Related Facilities

USDA limits the use of any chemicals in areas where existing food or food packaging can be contaminated. Contact Metzger/McGuire for further details if food products are present.

Stain Prevention

Proper RS 88 installation requires that the joint be overfilled (crowned). While RS 88 will not typically leave a stain/film in normal conditions, the potential may exist for a slight shadow or film along the sides of joints on some slabs. We recommend a test placement prior to start of project to check conditions. If surface staining/film appears to be a concern, coat surface with Metzger/McGuire's "SPF" (Stain Preventing Film) prior to the commencement of joint cleaning and filling procedures.

Joint Cleaning

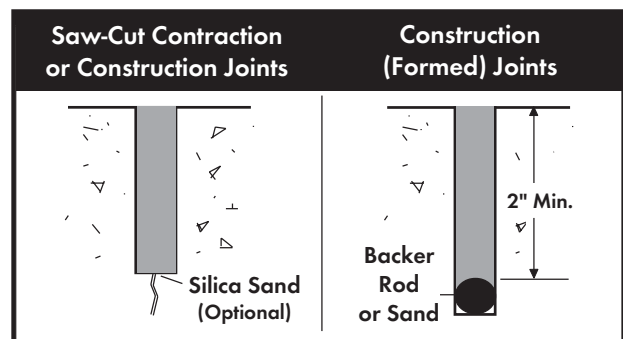
RS 88-SG must bond to clean, exposed concrete for the full intended filler depth. Joints must be free of saw laitance, dirt, debris, coatings, sealers, etc. The only effective means of proper joint cleaning is the use of a dry cut saw (preferably vacuum-equipped) with a diamond blade. The blade depth should extend to the intended filler depth. Run blade against each sidewall on separate passes. After cleaning joints with saw, vacuum any remaining dust/debris from joint.

Joint Preparation

Due to RS 88-SG's rapid gel time, it is not necessary to "choke-off" the bottom of control/contraction joints to prevent filler waste. **Note: DO NOT USE COMPRESSIBLE BACKER ROD IN SAW CUT JOINTS.** RS 88-SG is designed to be placed to the full depth of the joint in saw-cut contraction/control or construction joints or at 2" minimum if joint depth exceeds 2".

For through-slab construction (cold) joints, the installer may use silica sand or backer rod IF it is held down at least 2" from the top. Contact Metzger/McGuire for information on special conditions (armored joints, etc.).

JOINT DESIGN DETAIL



Temperature Factors

Like most polyureas, RS 88-SG is affected by temperature. In warm or hot weather, RS 88-SG will cure faster. In cooler weather, RS 88-SG will cure slightly slower. To make it cure faster, keep material at 70°F + by outfitting pump with heating unit. Contact pump manufacturer or Metzger/McGuire for more information.

Heavy Duty, Rapid Set
Polyurea Joint Filler

SPAL-PRO RS 88 SG

INSTALLATION INSTRUCTIONS

Pre-Mixing Spal-Pro RS 88-SG

Read MSDS prior to opening containers and follow all safety measures, including working in an obstacle-free, well ventilated area. Always pre-mix Part A component prior to pouring into pump tank to re-disburse any settlement. Do not thin or dilute RS 88-SG with solvent or other substances.

Dual cartridge units should be shaken vigorously to re-disburse pigment. Read and follow cartridge use instructions enclosed with cartridge units.

Installation

Install RS 88-SG in one pass, filling from bottom of joint up to avoid air entrapment. RS 88-SG should overfill the joint, leaving a slight crown. Do not fill flush as the profile of the material will likely end up concave (or dished) and will not provide protection to joint edges.



Caution On Chemical Cure

RS 88-SG cures chemically through a reaction of parts A and B. During this chemical reaction the released fumes can be potentially harmful. Be cautious during the cure period. Do not inhale or get polyurea on skin or in eyes. See MSDS and safety information for additional information.

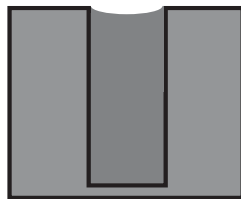
Finish Profile

To be effective as an edge-protector, RS 88-SG's final profile should be flush with the floor surface. This is achieved by razoring-off the overfill crown after the RS 88-SG has fully cured into a solid (1-2 hours depending on temperature). Use Crain Model # 375 razor scraper or equal. If RS 88-SG is gummy or liquid when shaving, allow additional cure time.

ACCEPTABLE



NOT ACCEPTABLE



Low Spots

Low spots can occur due to loss through cracks at bottom of joint. Do not try to apply a thin "cap bead" to cured RS 88-SG. It will not bond. The low spots must be sawn out to a minimum depth of 1/2" and refilled with additional RS 88-SG.

Low Spots (Continued)

Use of an unbraided wire wheel for removal is recommended.

After the Installation

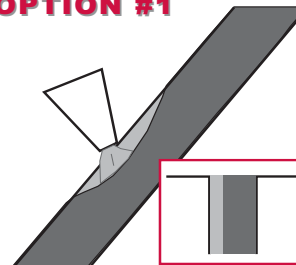
Clean all tools with solvent and remove spills on floor with solvent or by scraping. The floor, depending on temperature, can usually be opened to light traffic within 30 minutes and heavy traffic in 60-90 minutes. If the floor is to be acid-etched or coated, allow approximately 1 day. RS 88-SG is unaffected by light muriatic acid and almost all coatings. A test coat is always recommended. Once cured, mechanical scrubbing or most cleaners do not affect RS 88-SG. Stains left on the top edges from overfilling are difficult or impossible, to remove. Wire brushing with solvent (MEK or denatured alcohol) is somewhat successful.

Filler Separation

Since slabs continue to shrink long after the filler installation, RS 88-SG may separate adhesively or cohesively. This is not a failure of the RS 88-SG. Refer to Metzger/McGuire's technical data on "Filler Separation" for complete explanation.

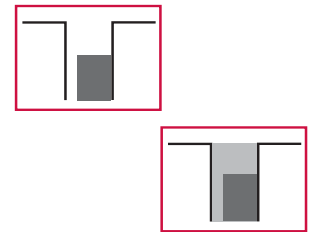
Filler Separation Correction

OPTION #1



Use knife or narrow tool to loosen debris. Blow/vacuum clean. Fill (overfill) voids with Spal-Pro RS 88-SG Polyurea and allow to set into a solid. Razor off flush.

OPTION #2



Saw cut out top 1/2" of RS 88-SG. Blow/vacuum clean. Fill (overfill) voids with additional Spal-Pro RS 88-SG and allow to set into a solid. Razor off flush.

Color Changes

Certain lighting systems can emit UV rays that cause RS 88-SG and other epoxies to change color. Charcoal grays typically turn yellow or a murky brown. This color change will not affect RS 88-SG's performance but can be aesthetically undesirable.

If color change takes place, verify that UV is the cause by running a sample of RS 88-SG in an area not exposed to the lights. Removing and replacing discolored RS 88-SG will merely result in a color change of the second installation. Color difference will generally become less noticeable with the passage of time and repeated floor scrubbing.

10/07

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