



TECHNICAL DATA SHEET

Spal-Pro RSF

PRODUCT DESCRIPTION

Spal-Pro RSF is a rapid setting, two-component polyurea polymer liquid of 100% solids content. When cured, Spal-Pro RSF is a medium gray, rubberlike solid with a hardness of Shore A88-94, depending on temperature. Spal-Pro RSF was developed to fill and protect joints in 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 RSF is designed for use in areas where final temperatures are from 120°F (49°C) to -30°F (-35°C). Spal-Pro RSF is also ideal for filling random cracks. Spal-Pro RSF is exclusively for use in freezer/cooler concrete floors and thus should always be referenced in 03251 (expansion/contraction joints) & 03300 (cast-in-place concrete). It is not a sealant and should not be specified as part of 07900, other than for cross reference.

PHYSICAL PROPERTIES

HARDNESS, SHORE "A" @ 0°F: A92-94

HARDNESS, SHORE "A" @ 70°F: A88-92

ADHESION TO CONCRETE: 350-400 PSI

TACK FREE @ 0° F: 2 Hours

PEDESTRIAN TRAFFIC @ 0° F: 3-5 Hours

TENSILE ELONGATION*(@ 70°F): 170%

TENSILE STRENGTH (@ 70°F): 930 psi

MIX RATIO (by vol.): 1:1

SOLIDS CONTENT: 100%

SHRINKAGE: Negligible

COLOR: Medium Gray

COVERAGE RATES

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal.
1/8" x 1"	150	3x25	46
1/8" x 1 1/4"	125	3x31	38
1/8" x 1 1/2"	100	3x38	30
1/8" x 1 3/4"	85	3x44	26
1/8" x 2"	75	3x50	23
3/16" x 1"	100	5x25	30
3/16" x 1 1/4"	85	5x31	26
3/16" x 1 1/2"	70	5x38	21
3/16" x 2"	50	5x50	15
1/4" x 1"	80	6x25	24
1/4" x 1 1/4"	60	6x31	18
1/4" x 1 1/2"	50	6x44	14
1/4" x 1 3/4"	45	6x50	12
1/4" x 2"	40	9x25	15

CORRECT JOINT

Spal-Pro RSF should be installed to full depth in saw-cut joints and 2" (50 mm) minimum in joints exceeding 2" in depth. Because of its rapid set, "choking off" the base of the joint is normally not necessary. If shrinkage crack is excessive, it may be "choked off" as shown below (contractor's option). Do not use compressible backer rod (Ethafoam, etc.) in saw cut joints less than 2" deep. Compressible rod may be used in joints exceeding 2" in depth if placed to ensure that minimum filler depth is 2" or greater

LIMITATIONS

Spal-Pro RSF should be installed only after installation areas are stabilized at final operating temperatures (preferably for 7-14 days or longer). Due to its relatively high Shore A hardness, it will not expand if joints widen considerably as temperatures drop. Spal-Pro RSF is not recommended for the repair of wide (1"+) spalled joints, wide gouges or surface delamination. Refer to data on Spal-Pro 2000 for such repairs.

INSTALLATION

Correct Joint Design/Installation Spal-Pro RS 65 should be installed at a depth of 1/2" deep over closed-cell compressible backer rod in sawn contraction/ control or construction joints.

When to Install - Floor should be stabilized at final operating temperature for 7 days or more prior to installing Spal-Pro RSF. Refer to Technical Bulletins T5 (Installation Timing) and T6 (Filler Timing for Refrigerated Areas) for additional information.

Joint Preparation - Joints should be free of saw laitance, dirt, debris, frost and/or visible moisture. Joint cleaning procedures must accomplish the removal of all of the above. Failure to do so could compromise adhesion. This is best accomplished using a dry-cut saw with diamond blade. No primer is needed. Contact The Concrete Protector® if unusual conditions are suspected. Choking off the base of the joint is normally not required due to Spal-Pro RSF's rapid set. Applicator may at his option choke-off the shrinkage crack if it is excessively wide (as shown in joint design spec, section 5). Do not use compressible backer rod (Ethafoam, etc) in saw cut joints.

Prior to Dispensing - Thoroughly read SDS and complete installation instructions. Spal-Pro RSF must be dispensed with dual-feed power dispensing equipment, or with pre-filled, dual-dispense cartridge units. Manual dispensing is impractical due to short working life (2-3 minute gel time). Power dispensing systems should be set to a 1:1 ratio by volume, with lines and material tanks heated and insulated. Material should be maintained at a minimum temperature of 75° F (24°C) for best results. We recommend the use of a 1/2" diameter (ID) static mixer of 30 or 32 elements for material dispensing. Performing periodic ratio checks on power dispense units to ensure proper cure is highly recommended. Material provided in drums or pails should be thoroughly mixed to redistribute any settlement that may have occurred during shipping or storage. Cartridges should be shaken aggressively to accomplish same.

Dispensing - Fill joint from bottom to top, preferably using a dispensing tip that fits into the joint. Take care not to entrap air bubbles. Joint can be filled using either a one or two pass technique. The Spal-Pro RSF should overfill the joint, leaving a crowned profile, and allowed to cure. The crown should be razored off in 2 to 5 hours (depending upon floor temperature), leaving a filler profile flush with floor surface. Should filler cure below the floor surface (due to settlement into the void at base of joint, etc.), abrade surface of the low filler, ensuring at least 1/2" of clean joint sidewall is present and re-apply additional filler. Spal-Pro RSF overfill may leave a slight stain on concrete. The degree of staining will depend on the surface density of the slab. The stain will generally fade as a result of subsequent traffic and floor cleaning procedures.

Bubbles in Surface of Bead - Small bubbles may develop during the cure of the material (generally from air entrapment or moisture). Bubbles may be "popped" by applying light heat to surface of material prior to cure. Small (pinhead, etc.) bubbles will not adversely affect Spal-Pro RSF's performance.

Clean-Up - Spills of unmixed components can be cleaned up with solvent (MEK, denatured alcohol, etc.) or scraped/shaved off floor and tools if cured.

MAINTENANCE

Once cured, Spal-Pro RSF is basically maintenance free. If joints should open wider after installation, separations may occur adhesively (filler-to-joint wall) or cohesively (internally).

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON

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