

Installation Guidelines and Equipment Recommendations

Dow Corning[®] 902 RCS Joint Sealant

INSTALLATION GUIDELINES

For proper installation of *Dow Corning*[®] 902 RCS Joint Sealant, follow installation recommendations described in the *Dow Corning Silicone Pavement Sealants Installation Guide*, Form No. 61-507. In addition, follow these procedures:

- For rehab, completely remove the old seal/sealant.
- Clean (sandblast) deeper than usual. To determine this depth, allow for a 1/2" (13 mm) recess and the 1/2" (13 mm) bead thickness, plus an additional distance equal to at least one half the diameter of the backer rod. (See Figure 1.)
- Air blast the joint after sandblasting to remove all debris in the joint and the surrounding area.
- Apply the proper primer. Consult the primer recommendation guide for appropriate substrate and primer combinations.
- Priming and sealing must take place on the same day. The priming operation should not be more than 1 hour ahead of the sealing operation at any given time.
- Install backer rod at a minimum of 1" (25 mm) below the pavement surface. Never install more backer rod than can be sealed in the same day.
- Inspect the joint to make sure it is clean and dry.
- Install the sealant.
 - Make sure both components (A and B) dispense prior to installing the static mixer. This procedure should be repeated with every kit used.
 - Attach the static mixer.
 - Dispense through the static mixer; look for uniform color (no streaking).
 - Dispense the sealant close to both joint side walls.
 - Check the bead thickness immediately after installation.

- Do not let the static mixer idle for more than 5 minutes during kit change-out.
- Cleanup varies depending on the equipment being used. Consult the equipment manufacturer or your Dow Corning representative for recommendations.

Primer Recommendations

When using primers, consult local and state laws for VOC compliance.

For concrete surfaces or carbon steel faces, prime the substrate with *Dow Corning*[®] P5200 Adhesion Promoter. Apply the primer with a clean paint brush or a clean, lint-free cloth, uniformly coating the entire surface. Do not saturate, as this will increase drying time. Allow a minimum of 10 minutes for the primer to dry prior to sealant application.

Contact Dow Corning Technical Service and Development for further recommendations on metal surfaces other than carbon steel.

Primer Sources

Refer to the Primer Selection Guide for recommendations on primer selection.

Backer Recommendations

For joints greater than 2" (50 mm) in width at the time of sealing, it may be difficult to obtain a backer rod in a diameter that will stay in place during sealant cure and not be so large that it tears or is punctured during backer installation. Options include:

1. Use of a soft, open-cell rod with an impervious skin that will readily compress to smaller joint widths without damage.
2. Increasing the size of a standard backing rod by slicing it open and inserting a smaller diameter rod – a practice known as “hot dogging” (see Figure 2).

Limitations

Dow Corning 902 RCS Joint Sealant is not recommended for continuous water immersion. Do not install the sealant under totally confined conditions. Do not apply to wet or dirty surfaces.

Dow Corning 902 RCS Joint Sealant must be recessed below the pavement edge to prevent traffic abrasion or snowplow damage. Do not install in joints that cause the sealant to come in contact with traffic or exceed its stated capability.

Figure 1. Proper Sandblasting Depth

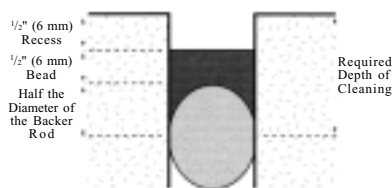


Figure 2. Enlarging Backer Rod by “Hot Dogging”



Equipment Recommendations

Four manufacturers have evaluated *Dow Corning* 902 RCS Joint Sealant and recommend the following equipment for sealant application:

For 20-oz E-Z Pak Sausage Kits

Albion Engineering Co.

Model #635-1 Air Gun

- No premixing required
- 1:1 mix ratio
- 80 psi maximum operating pressure
- Shoulder harness or wheel carriage optional

Cox North America

Model CBA-600/s

- No premixing required
- 1:1 mix ratio
- 80 psi maximum operating pressure
- Built-in air regulator



Cox North America Model CBA-600/s Dual Component Applicator for 20-oz sausage packs.

AV03277

For 9-gal Plastic Pail Kits

Graco/Pyles

Model #G965-119 Extrusion Pump

- No premixing required
- 1:1 mix ratio
- Pressure ratio of 20:1
- Choice of dispensing wands
- Excellent for larger projects or full-time bridge maintenance crews

Johnstone Pump Company

JPC 110-277 Dual Pail Pump System

- Automatic pail levelers
- Air line filter, lubricator and regulator
- 1:1 mix ratio
- Pressure ratios of 22.5:1 or 15:1



Albion Engineering Co. Model #635-1 Air Gun

AV03276

Primer Spray Applicators

Milwaukee Spray Co.

Sure Shot Sprayer Model #2000A

- 1 qt. capacity

Graco/Pyles

Model #600, Air Assist Spray Gun

Static Mixers

Laboratory and field testing of *Dow Corning* 902 RCS Joint Sealant indicates that the following static mixers give good mixing and application results:

TAH Industries and Albion Engineering Co.

Disposable Unit

- 16 elements – 3/4" ID
- Series 140 female NPT (ready to attach to manifold)

Reusable Unit

- Stainless steel SST housing with disposable mixer
- 24 elements – 3/4" ID and 3/4" NPT steel pipe coupling

Equipment Contacts

Albion Engineering Co.
2080A Wheatshaf Lane
Philadelphia, PA 19124
Phone: (215) 535-3476

TAH Industries
107 North Gold Dr.
Robbinsville, IN 08691-1699
Phone: (609) 259-9222

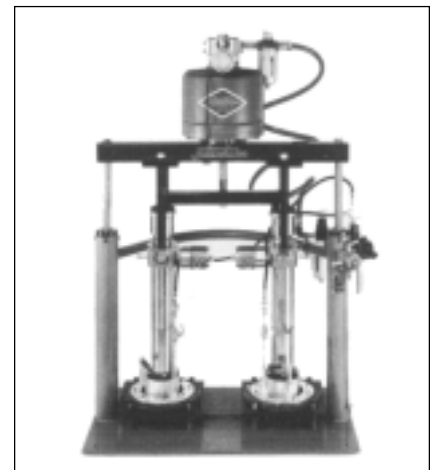
Graco/Pyles
47700 Halyard Dr.
Plymouth, MI 48170
Phone: (313) 416-3400

Value Added Systems, Inc.
(Representing Johnstone Pump Company)
P.O. Box 2335
Denton, TX 76202
Phone: (817) 566-2508

Milwaukee Spray Co.
5635 West Douglas Ave.
Milwaukee, WI 53218
Phone: 800-558-7035



Graco/Pyles Model #G965-119 Extrusion Pump



Johnstone Model JPC 110-277 Dual Pail Pump

HANDLING PRECAUTIONS
 PRODUCT SAFETY INFORMATION
 REQUIRED FOR SAFE USE IS NOT
 INCLUDED IN THIS DOCUMENT.
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Table I. Movement Range and Usage Rate

Joint Width ¹ ,		Movement Rating, percent	Maximum Sealant Bead Thickness,		Linear Yield ² , 40-oz Kit		Linear Yield ³ , 9-gal Kit	
inches	mm		inches	mm	ft	m	ft	m
1	25.4	+100/-50	1/2	12.7	9	2.74	260	79.3
1 1/4	31.8	+100/-50	1/2	12.7	7.5	2.29	210	64.0
1 1/2	38.1	+100/-50	1/2	12.7	6	1.83	160	48.8
1 3/4	44.5	+100/-50	1/2	12.7	5	1.52	135	41.1
2	50.8	+100/-50	1/2	12.7	4.5	1.37	120	36.6
2 1/4	57.2	+100/-50	1/2	12.7	4	1.22	110	33.5
2 1/2	63.5	+100/-50	1/2	12.7	3.5	1.07	100	30.5
2 3/4	69.9	+100/-50	1/2	12.7	3	0.91	75	22.9
3	76.2	+100/-50	1/2	12.7	2.5	0.76	60	18.3
3 1/4	82.6	±50	1/2	12.7	2.25	0.69	55	16.8
3 1/2	88.9	±50	1/2	12.7	2.1	0.64	50	15.2
3 3/4	95.3	±50	1/2	12.7	2	0.61	45	13.7
4	101.6	±50	1/2	12.7	1.5	0.46	40	12.2

¹Joint width as measured at time of installation.

²Yield based on one kit containing two 20-fl oz E-Z Pak sausages. Yield will vary depending on joint design, tooling, backer, placement, waste and experience.

³Yield based on one kit containing two 4.5-gallon pails. Yield will vary depending on joint design, tooling, backer, placement, waste and experience.



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