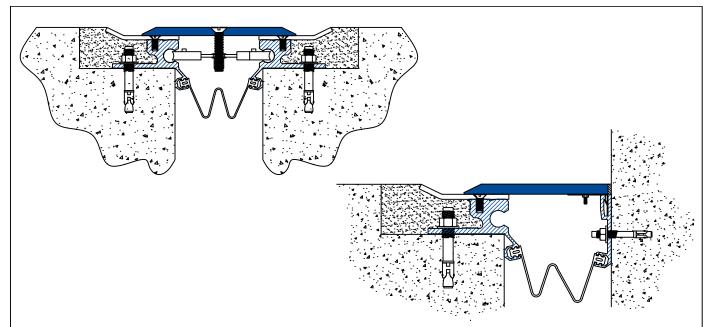




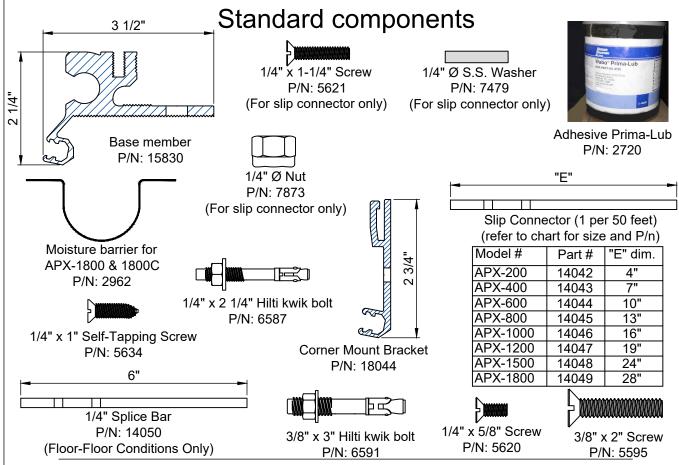
Installation Procedure



Wabo®SeismicSpan Traffic Series Model(s) "APX" and "APX-C" Horizontal Expansion Control Systems

The following installation procedure is very important and must be fully understood prior to beginning any work. To ensure proper installation and performance of expansion joint system the following actions must be completed by the installing contractor. **Failure to do so will affect product warranty**.

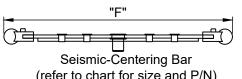
- 1) Carefully read and understand installation procedure. Contact Emseal's Technical Service Department at (508) 836-0280 for product assistance.
- 2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (508) 836-0280 with Emseal's order number and invoice for prompt assistance.
- 3) Inspect substrate or adjacent construction for acceptance before beginning work. Report unacceptable construction to the project manager for scheduled repair work.
- 4) Review Emseal shop drawings for project specific detailed information if Engineering services were purchased at time of order.



Components shown below vary in size depending



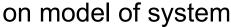
Model #	P/N	"B" dim.
APX-200	15645	7 3/8"
APX-400	15645	7 3/8"
APX-600	15646	12 3/8"



_	(Total to onall for size and 1 /14)		
	Model #	P/N	"F" dim.
	APX-800	15632	18 3/8"
Γ	APX-1000	15632	18 3/8"
	APX-1200	15633	22 3/8"
	APX-1500	15634	26 3/8"
Γ	APX-1800	15667	32 3/8"



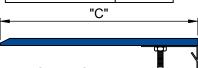
(Total to chart for size and 1 /14)		
Model #	Aluminum P/N	"A" dim.
APX-200	14000	4"
APX-400	14001	7"
APX-600	14002	10"
APX-800	14003	13"
APX-1000	14004	16"
APX-1200	14005	19"
APX-1500	14015	24"
APX-1800	14006	28"





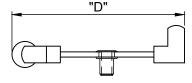
Functional Seal (refer to chart for size and P/N)

Model #	P/N
APX-200/200C	1181
APX-400/400C	1181
APX-600/600C	1175
APX-800/800C	1175
APX-1000/1000C	1176
APX-1200/1200C	
APX-1500/1500C	1177



Corner Cover Plate (refer to chart for size and P/N)

Model #	Aluminum P/N	"C" dim.
APX-200C	14024	2 7/8"
APX-400C	14025	5 3/8"
APX-600C	14026	7 7/8"
APX-800C	14027	10 3/8"
APX-1000C	14028	12 7/8"
APX-1200C	14029	15 3/8"
APX-1500C	14030	19 3/8"
APX-1800C	14031	22 7/8"



Seismic-Centering Bar (refer to chart for size and P/N)

Model #	P/N	"D" dim.
APX-1000C	15650	12"
APX-1200C	15651	14"
APX-1500C	15652	16"
APX-1800C	15653	19"



Base Extension Plate (refer to chart for size and P/N)

(10101 to 01101 101 0120 0110 1 711)			
Model #	P/n	"G" dim.	
APX-200	14007	1 1/2"	
APX-400	14008	2 1/2"	
APX-600	14009	3 1/2"	
APX-800	14010	4 1/2"	
APX-1000	14011	5 1/2"	
APX-1200	14012	6 1/2"	
APX-1500	14014	8 1/4"	
APX-1800	14013	9 1/2"	

Health & Safety

During the installation of any Sika Emseal product, appropriate personal protective items should be worn at all times, including but not limited to the following:

- Proper work clothing
- Safety glasses
- Safety boots
- Gloves
- Hard hat











Product components - recommended components



Wabo[®]Crete Parking Series Elastomeric Concrete with Wabocrete II Part B Black: Part A (P/n: #14380H, Part B (black) (P/n #14381G) & Part C (P/n: #33138)



Wabo[®]Bonding Agent Part A (P/N: 1931J, Part B (P/N 1933J)



WaboCrete® Elastomeric Concrete
Non-Flow Additive

(for sloped, crowned or ramped surfaces) P/n: #14389 Add maximum one bag to one unit of Elastomeric Concrete



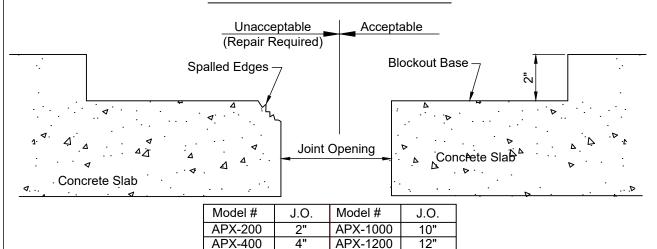
NEW Sikadur 229 66lb Bag (30.0 KG)

(P/N: 33137) for broadcasting onto WaboCrete® Parking Series Elastomeric Concrete exposed surface.

Pre-Installation Notes

Concrete substrate must be clean (free of dirt, coatings, rust, grease, oil and other contaminants), sound and durable. New concrete must be fully cured (min. 14 days) and all laitance removed. Mask joint edges with duct tape & roofing paper to ensure a clean final appearance. Clean blockout with dry compressed air. (see Installation Step #1)

Installation Procedure



Prepare concrete block out for installation of Wabo®SeismicSpan Expansion Control System. Deficiencies in block out base and spalled edges must be corrected prior to beginning work. Note: Utilizing concrete repair material, repair corner of concrete slab following manufacturers written instructions.

6"

8"

APX-1500

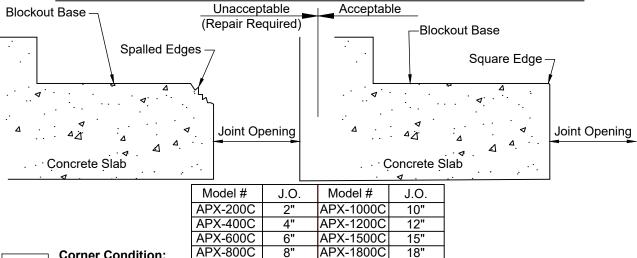
APX-1800

15"

18"

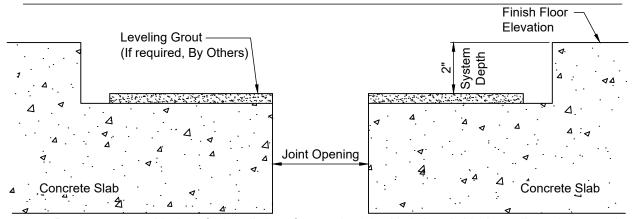
APX-600

APX-800



Corner Condition:

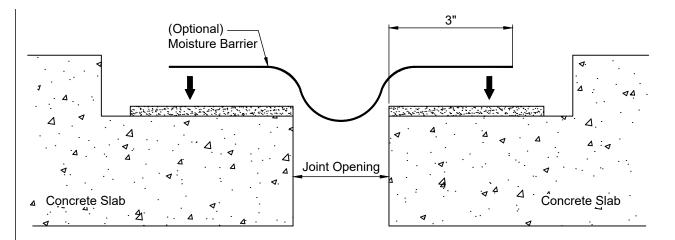
Prepare concrete block out for installation of Wabo®SeismicSpan Expansion Control System. Deficiencies in block out base and spalled edges must be corrected prior to beginning work. Note: Utilizing concrete repair material, repair corner of concrete slab following manufacturers written instructions.



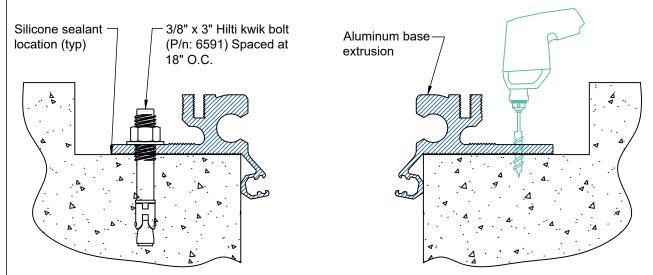
Prepare concrete blockout for installation of expansion joint. Variations in block out dimensions must be corrected prior to beginning work.

Note:

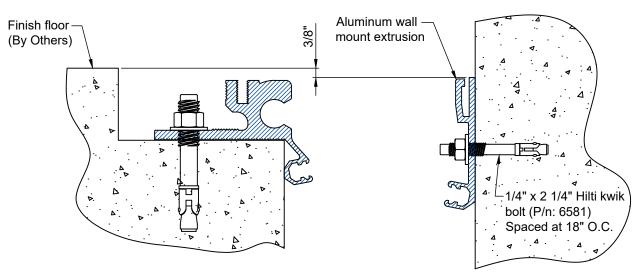
Leveling grout usually not required if blockout was formed true and level to satisfy expansion joint system depth.



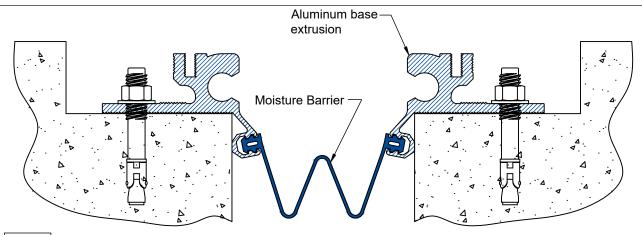
(APX-1800 & APX-1800C) Install Moisture Barrier. Maintain proper overlap onto blockout base and temporarily affix with Duct Tape.



Place and adjust aluminum base members into blockouts. Mark anchor locations and follow Hilti recommendations for proper anchor installation. Prior to anchoring base members into place, apply a continuous bead of sealant (by others) onto blockout and at butt ends of aluminum base members. Place and anchor base member.



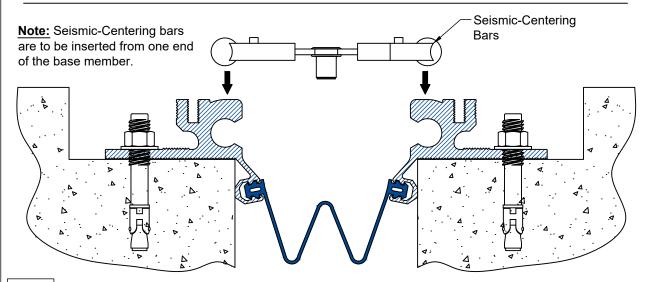
Place and adjust aluminum wall mount bracket into blockouts. Mark anchor locations and follow Hilti recommendations for proper anchor installation. Prior to anchoring wall mount brackets into place, apply a continuous bead of sealant (by others) onto blockout and at butt ends of aluminum wall mount brackets. Place and anchor wall mount bracket.



6 Install moisture barrier utilizing st Note: On custom projects, a she

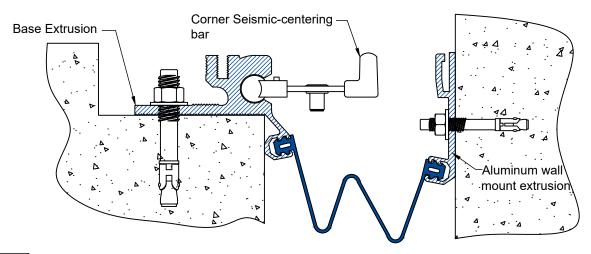
Install moisture barrier utilizing supplied Wabo Prima-Lub adhesive.

Note: On custom projects, a sheet good style moisture barrier may be utlizied. Refer to Step 3 if applicable.



7

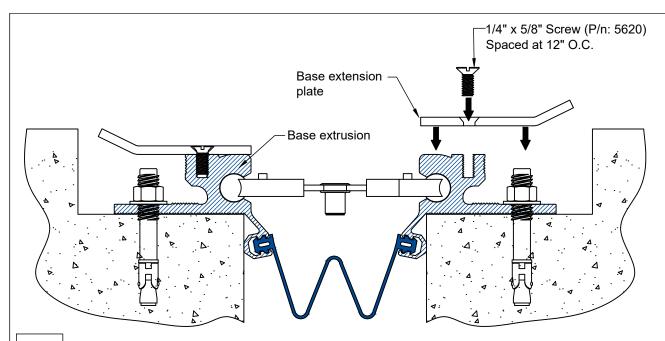
As work progresses with placement of base members, install Seismic-centering bars by sliding the sphered ends of the bars into and through the circular cavity of the base members. Set at an aproximate spacing of 18" O.C. Ensure that the "TOP" indicator is facing up and that bars are in same orientation.



7A

APX-1000C - APX-1800C

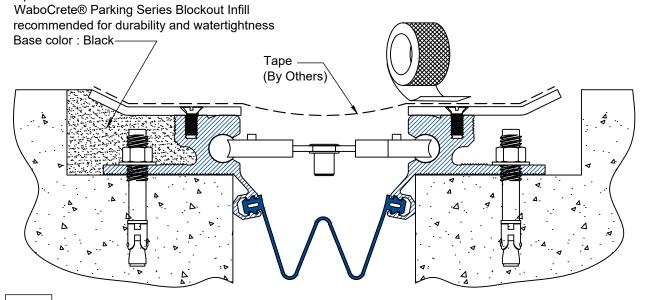
Slide in Corner Seismic-centering Bar into cavity of base extrusion as shown above. Seismic-Centering bar shall be spaced at 18" O.C.



8

Utilizing Base Extension plate and 1/4" x 5/8" screws install extension plate to base extrusion. To ensure that the screws do not strip the cavity in base extrusion - Do not overtighten.

Optional:



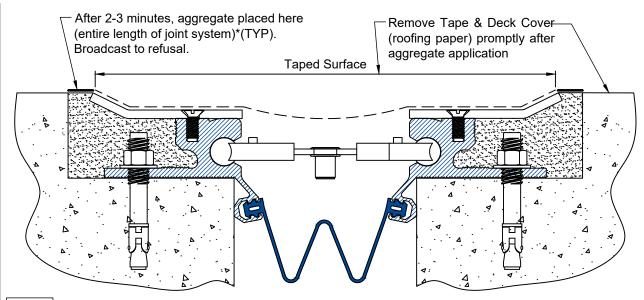
9

Tape and protect exposed surfaces during placement of filler material. Fill blockout with WaboCrete® Parking Series or equivalent for infill material. Remove tape immediately after concrete placement.

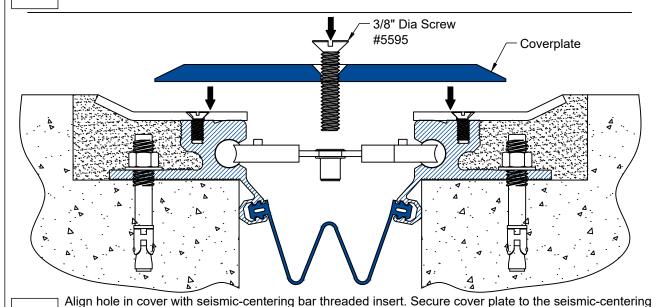
<u>WaboCrete® Parking Series Note</u>: **DO NOT** mix partial units of WaboCrete® Parking Series Elastomeric Concrete. Thoroughly stir Part B, scraping the can before pouring entire contents of Part B into a clean 5 gallon plastic bucket. Add Part A and mix both components with a 3/4" Low RPM drill equipped with large grout paddle for 30 seconds and until well blended.

Add aggregate component to the liquid material and mix until all aggregate is coated (Approx. 1.5 minutes). Pour WaboCrete® Parking Series Elastomeric Concrete mix flush to the top of the seal bulkhead and adjacent existing surface. The material will flow and self-level.

Lightly trowel surface to a smooth finish. If desired, solvent (i.e. Xylene, Toluene) can be used while troweling and for cleanup of tools. After 2-3 minutes, broadcast aggregate to refusal (medium grit). This enhances WaboCrete® Parking Series Elastomeric Concrete skid-resistance. Remove tape from top of seal immediately after installation of WaboCrete® Parking Series Elastomeric Concrete is completed.

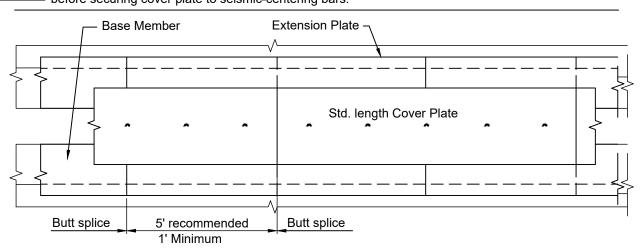


Apply aggregate as required, both sides of joint opening - entire length of joint system.



bars with the 3/8" x 2" lg machine screws provided. Do not over tighten.

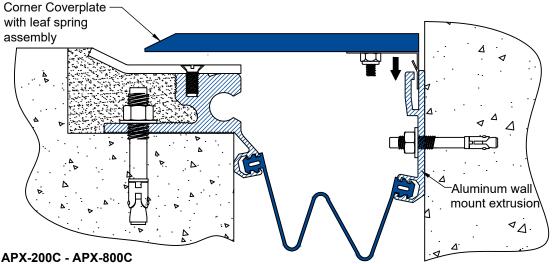
Note: To assure that threads do not loosen, apply Loctite Thread adhesive to threads of the 3/8" Dia screw before securing cover plate to seismic-centering bars.



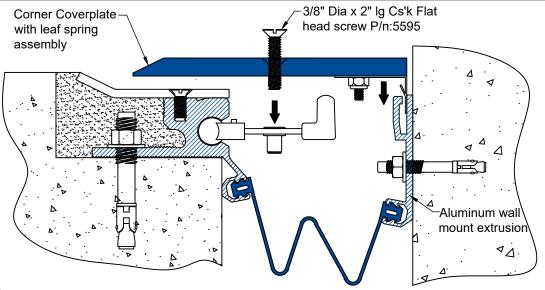
Plan of staggered joints.

Center aluminum panel over opening, aligning the holes for the self-centering bars over the previously installed bars. Maintain butt splice spacing as shown.

10A



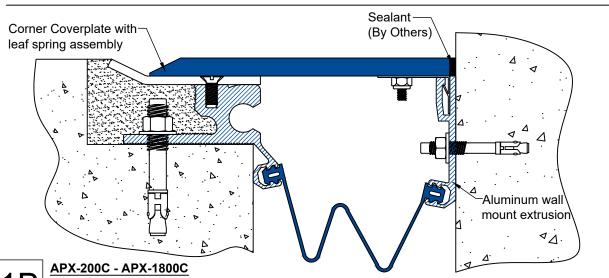
Insert and snap lock Corner cover plate with leaf spring assembly into Wall Mount Extrusion.



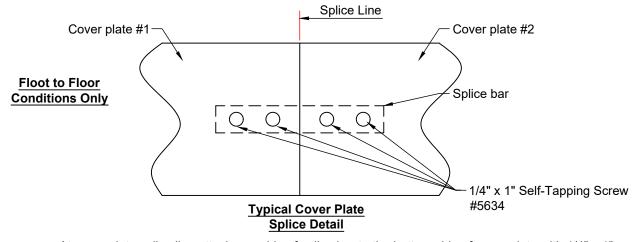
APX-1000C - APX-1800C

Insert and snap lock Corner cover plate with leaf spring assembly into Wall Mount Extrusion. Align pre-drilled holes in slide plate with threaded insert in Seismic-Centering bars. Secure with 3/8" x 2" csk Flathead screws. Tighten to create measurable tension in the bar. Do not overtighten.

Note: To assure that threads do not loosen, apply Loctite Thread adhesive to threads of the 3/8" Dia screw before securing cover plate to seismic-centering bars.

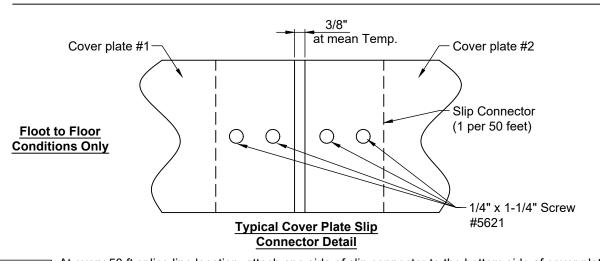


After Corner cover plate has been installed, apply a bead of sealant (By Others) along wall and edge of cover plate as shown above.



12

At cover plate splice line attach one side of splice bar to the bottom side of cover plate with 1/4" x 1" screws. After one side has been fastened, field match drill holes in splice bar utilizing a .228" dia drill bit allowing the cover plate as a template. After splice bar has been field drilled, install 1/4" x 1" screws to fasten splice bar to cover plate.



12A

At every 50 ft splice line location, attach one side of slip connector to the bottom side of cover plate with 1/4" x 1-1/4" screws. After one side has been fastened, using 1/4" x 1-1/4" screws fasten cover plate into slip connector through the holes already pre drilled in coverplate.

Recommended Equipment for WaboCrete® Mixing

- Abrasive blasting Equipment
- 3/4" Heavy Duty Drill (1 hsp Low RPM)
- 3/8" Hand Drill
- (2) Jiffy mixing paddles
- (1) Large Paddle (4" to 6")
- (1) Small Paddle (2")
- (1) Roll of 15lb Roofing Paper

- (2) Clean 5 gallon plastic buckets
- (4) Clean 1 gallon plastic buckets (For bonding agent)
- (8) 2" disposable paint brushes (For Bonding agent)
- Rubber gloves
- (8) 2" Margin trowels
- Misc. hand tools and extension cords

Yield Calculations for WaboCrete® Parking Series:

- One unit of WaboCrete® Parking Series Elastomeric Concrete will yield .60 cu. ft.
- One unit of WaboCrete® Parking Series = One US half gallon Part A, One gallon Part B, and one 60 lb Container of aggregate. the formula for calculating volume is: (length in feet x width in inches x depth in inches) / 86.4 = Number of units of WaboCrete® Parking Series needed to complete the job.

Curing of WaboCrete® Parking Series Elastomeric Concrete:

WaboCrete® Parking Series Elastomeric Concrete is an ambient cure material. Cure times are therefore, temperature dependant. Suggested cure times are listed below:

Cure Time: $21^{\circ} - 32^{\circ}C(70^{\circ}-90^{\circ}F) - 1 \text{ to } 1 \text{ 1/2 Hours}$ (Open to Traffic) $10^{\circ} - 21^{\circ}C(50^{\circ}-70^{\circ}F) - 1 \text{ 1/2 to 2 Hours}$ $4^{\circ} - 10^{\circ}C(40^{\circ}-50^{\circ}F) - 2 \text{ to 3 Hours}$

Sloped Conditions:

- 1. Premix Part B for 20 seconds (Scraping sides and bottom of can)
- 2. Pour Part B into clean empty 5 gallon bucket
- 3. Pour into Part A
- 4. Add Non-Flow additive, blend for 30 seconds
- 5. Add Part C and mix for 1.5 minutes
- 6. Pour into blockout and work WaboCrete® Parking Series with trowel into sloped condition until it sets up and stays in slopped position.

Notes:

All blockout width shall be 2x greater than the depth.

All yields are approximate and do not include allowance for uneven blockouts, waste etc...

Information provided herein, including but not limited to, any drawing, design, photograph, graphic, or statement(s) ("Materials") are proprietary and the property of Sika Emseal. ("Company"). Reproduction, translation, or reduction to any electronic medium or machine readable form, in whole or part, is strictly prohibited, except for the express purpose for which it has been furnished, without prior written consent of Company. All Materials contained herein are provided by Company for information purposes only. Company reserves the right to amend or withdraw any information contained in the Materials without notice. All technical or other advice by Company, whether verbal or written, concerning products, or the use of products in specific situations ("Advice") is given by Company and is used at the User's own risk.

Sika Emseal

25 Bridle Lane, Westborough, MA 01581 USA Phone: 508-836-0280 / Fax 508-836-0281

www.emseal.com

Rev. 1.1 10-01-2024



