Installation Procedure

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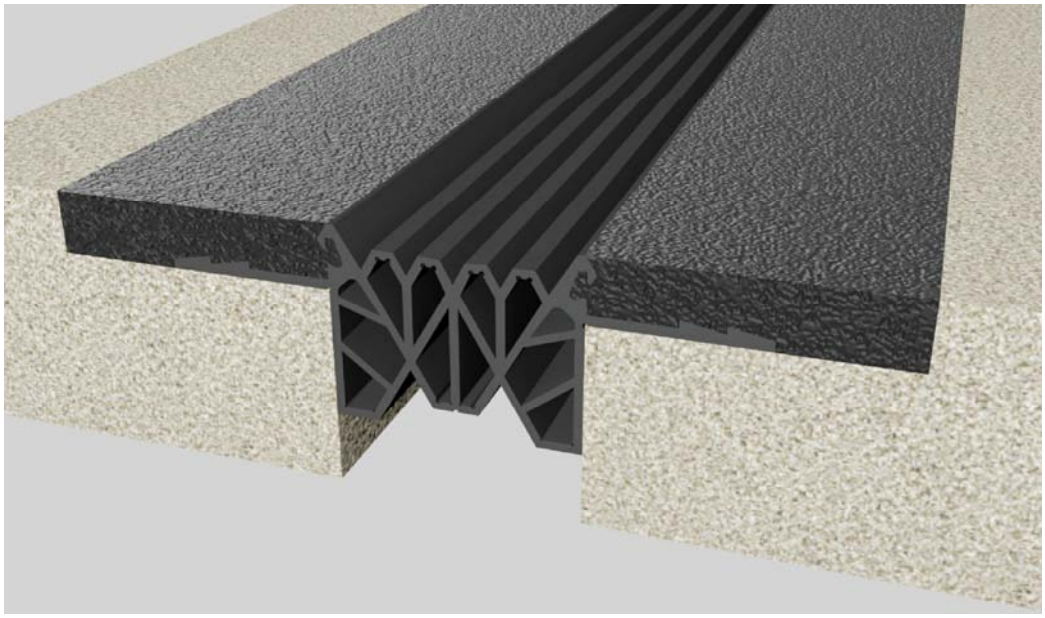


Wabo®Crete II Membrane System
Model(s) "ME" & "ME-C"
Expansion Control Systems

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 WBA's Technical Service Department at (800) 677-4922 for product assistance.
2) Inspect all shipments and materials for missing or damaged components and hardware. Contact Customer Service at (800) 677-4922 with WBA'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 WBA shop drawings for project specific detailed information if Engineering services were purchased at time of order.

Issued: 01/06/2017 P/n: 20192

Standard Components

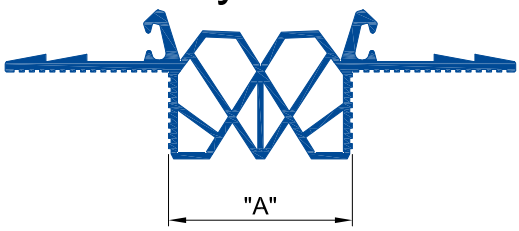
Wabo®Crete Elastomeric Concrete
(Part A, Part B and Part C)

Wabo®Bonding Agent
(Part A and Part B)

Wabo®Prima-Lub
P/n: 2720
(Optional)

Components shown below vary in size depending on model of system

Model	"A"
ME-175	1 1/4"
ME-225	2 1/4"
ME-300	3"
ME-400	4"
ME-500	5"
ME-600	6"



Wabo®Crete Membrane "ME" Series
(See Chart for Seal size)

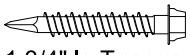
Optional Products

Wabo®Crete Elastomeric Concrete
Non-Flow Additive

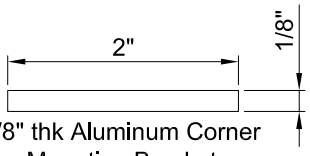
Pogo Stick

Floor to Wall

NP1 Sealant
(For Corner Condition)
P/n: 2826



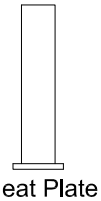
1/4" x 1 3/4" lg Tapcon Anchor
(For Corner Condition)
P/n: 6523



1/8" thk Aluminum Corner
Mounting Bracket
P/n: 9015

Splicing Options

241F Adhesive
(P/n: 2716)



Heat Plate

PP Primer For 241F
Adhesive (P/n: 2717)

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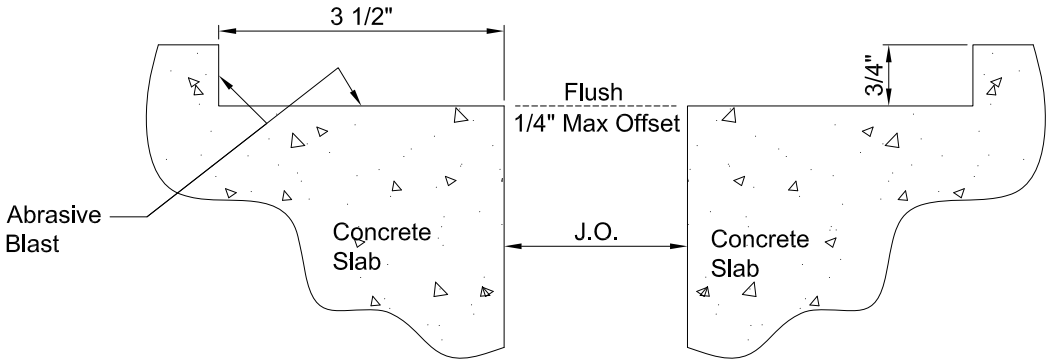
Installation Procedure

General Note: Concrete Substrate must be clean (Free of dirt, dust, 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 compresed air.



1 Blockouts must be formed to 3 1/2" wide and 3/4" in depth. Abrasive blast the concrete blockout surfaces to remove the foam release agents, grease, bond breakers and to enhance bonding surface.
Note: Abrasive blasting is the preferred method. While Grinding with a aggressive concrete disc is acceptable when abrasive blasting is not possible.

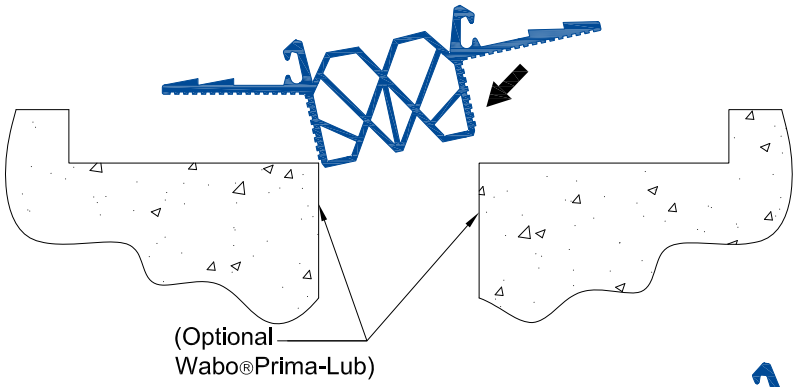


Figure 1

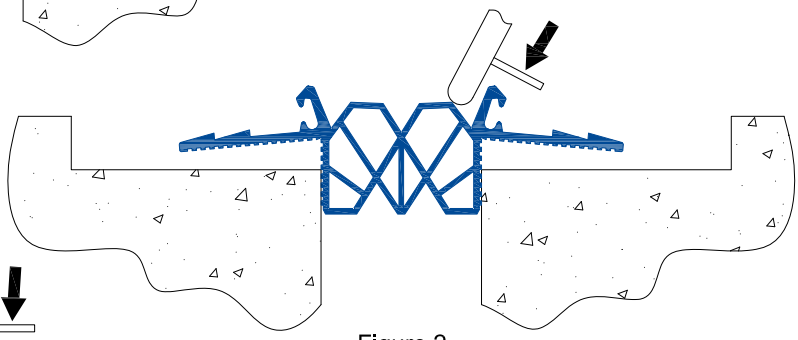


Figure 2

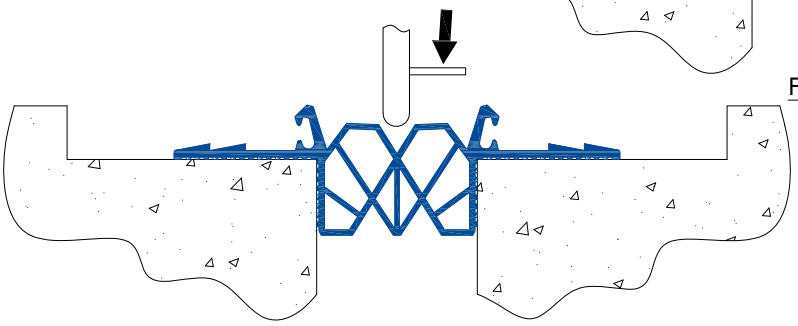
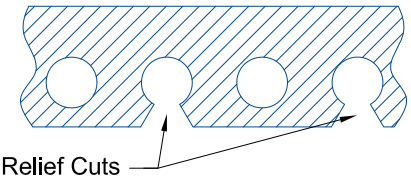


Figure 3



2 Lay seal out to relax and straighten (Tape flaps down). Wipe the flaps clean with white rags and solvent(ie. Xylene, Toluene, MEK, etc). (Optional: Apply thin layer of Wabo®Prima-Lub in joint opening as shown above with a brush) Position seal over the joint opening as shown(Fig. 1).
Compress bottom portion of seal and insert into joint as shown (Fig. 2). Complete installation by positioning seal within the joint to a depth so that the seal flaps lay flat in blockout. It may be necessary to make relief cuts in seal flaps in order for them to lay flat. Relief cuts should be made in a triangular shape.

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Installation procedure: WaboCrete Membrane "ME" Series

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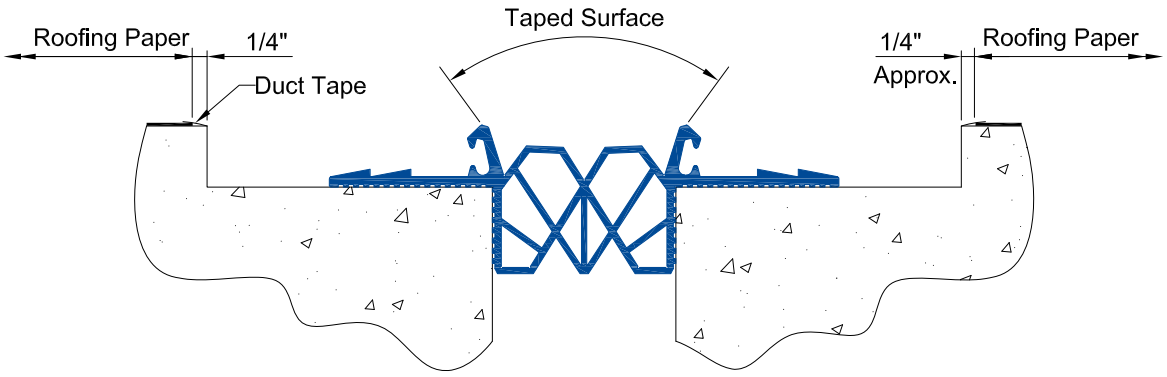
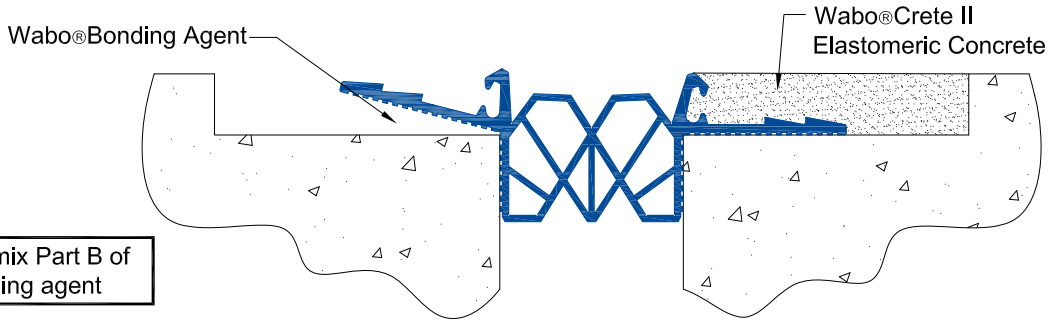
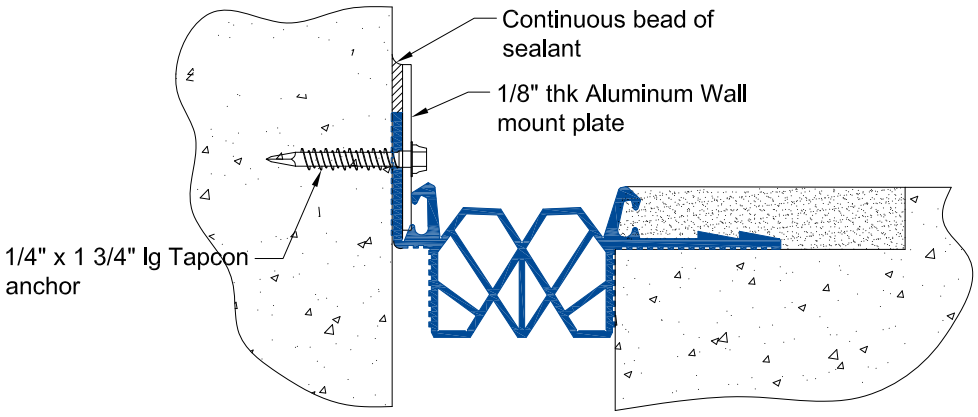


3 Tape the top of the seal with duct tape in area shown above. The edges of the blockouts should be covered with roofing paper taped down with duct tape to keep area clean during pouring of Wabo®Crete II Elastomeric Concrete.



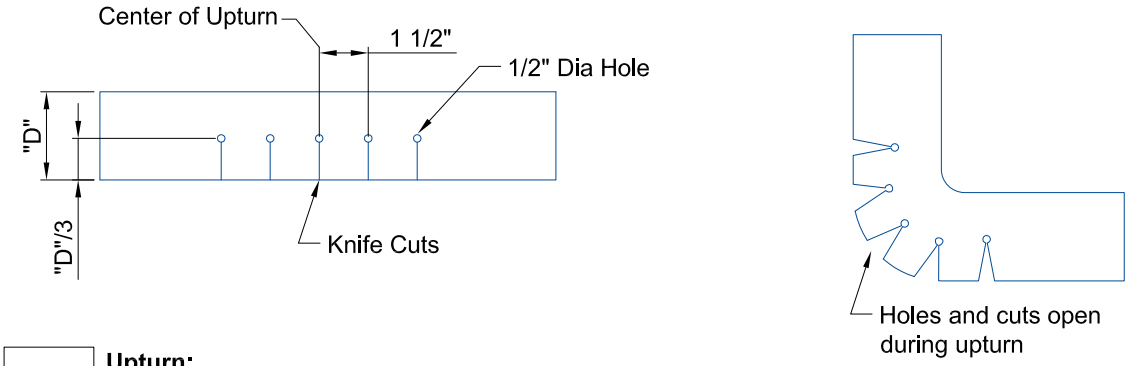
Pre-mix Part B of Bonding agent

4 Wabo®Bonding agent must be used as a primer on the properly prepared dry concrete before beginning the installation of Wabo®Crete II. Lift flaps of the seal as shown above and brush apply a thin layer of Bonding agent to the concrete surface and lay flap back down. When Bonding agent is installed the concrete shall look wet, ensure that ponding or puddles are not occurring. Immediately following application of bonding agent, begin installation of Wabo®Crete II. DO NOT allow the bonding agent to cure. No form is needed to pour Wabo®Crete II. Pour Wabo®Crete II flush to the top of the seal lug and adjacent existing surface. Remove tape from top of seal immediately after installation of Wabo®Crete is completed.
Wabo®Crete II Note: 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 the large 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). This mix can be poured into the properly prepared blockout. Trowel into position, the material will flow and self-level. Once level, lightly trowel the top to pop air bubbles.

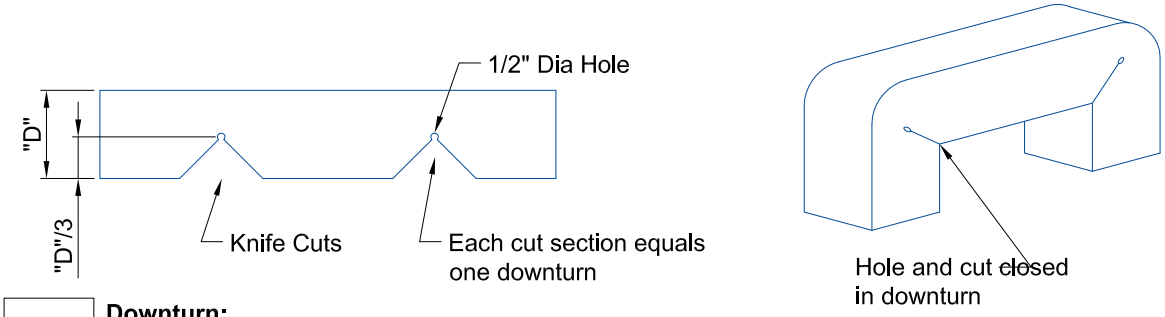


5 After installation of Wabo®Crete II Elastomeric Concrete, lift seal flap up as shown above. After seal flap has been lifted up, slide aluminum wall mount plate between flap and seal lug. Fasten wall mount plate to structure utilizing the 1/4" x 1 3/4"lg tapcon anchors supplied. When installing anchors make sure that the hole in the wall mount bracket is aligned with the holes in the elastomeric seal. This is to ensure that there will be good compression of the seal against the wall. To help ensure a watertight installation apply a continuous bead of sealant along to edge of the wall mount plate.
Note: Manufacture recommends minimum two anchors at a column installation.

Upturn and Downturn

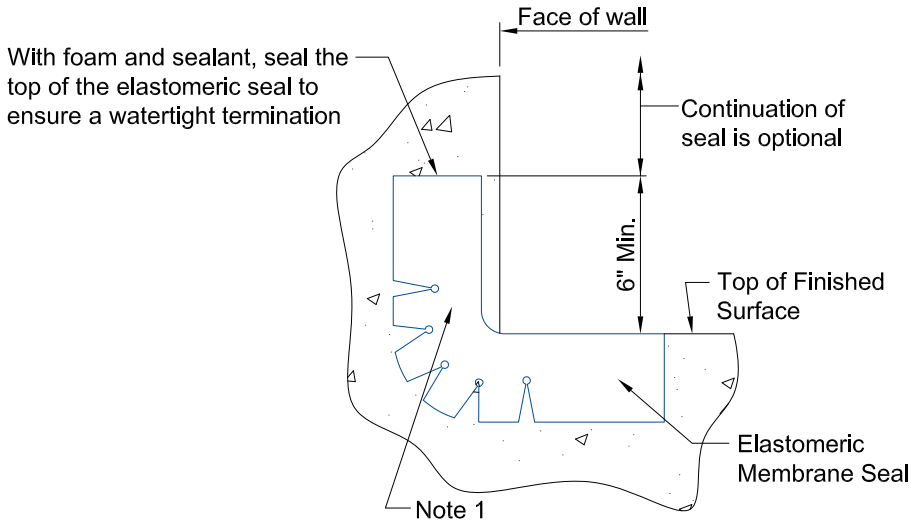


6A **Upturn:**
At upturn location Drill (5) 1/2" dia holes through seal spaced at 1 1/2" apart. Using a sharp long blade knife or hacksaw, cut the lower section of seal to 1/2" dia hole. Bend to desired position and follow manufacture's standard installation procedure.



6B **Downturn:**
At downturn location Drill 1/2" dia hole through seal as shown above. Using a sharp long blade knife or hacksaw, cut 45° in the lower section of seal to 1/2" dia hole. Bend to desired position and follow manufacture's standard installation procedure.

Termination at Wall/Fascia



Termination at Wall

7 **Notes:**
1. Install vertical portion of seal as a standard compression seal ensuring the cut portions of seal are properly installed.

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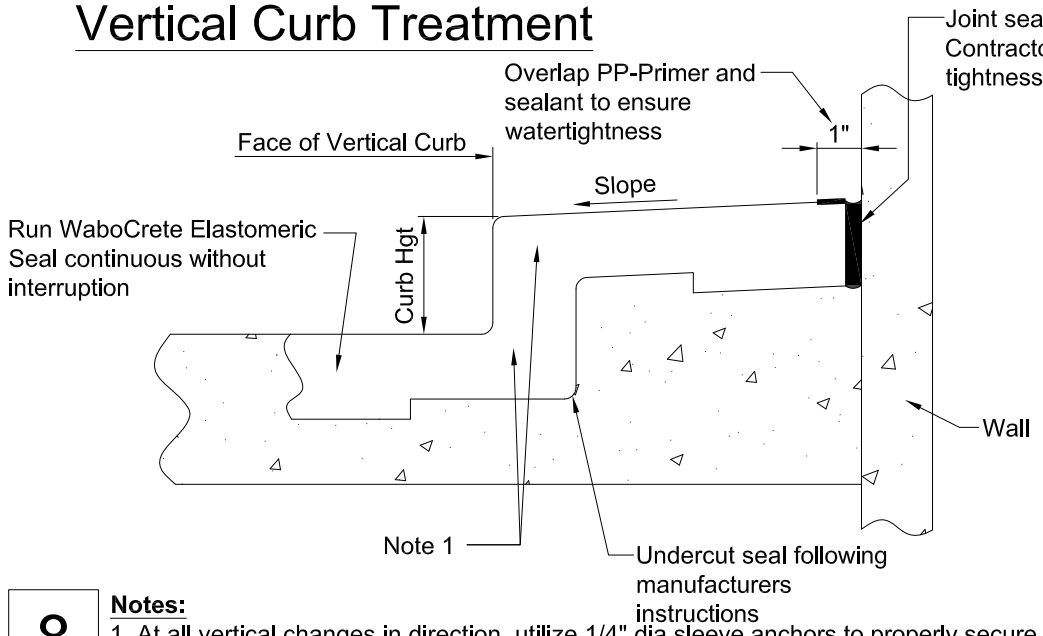
Vertical Curb Treatment

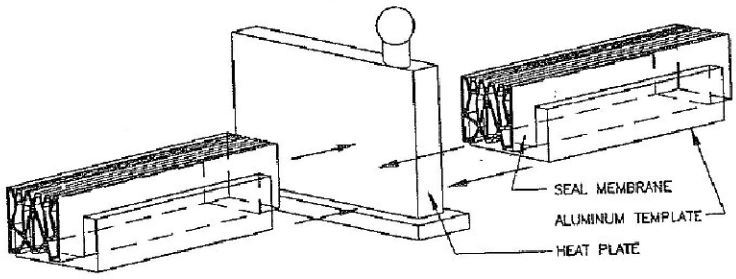


8

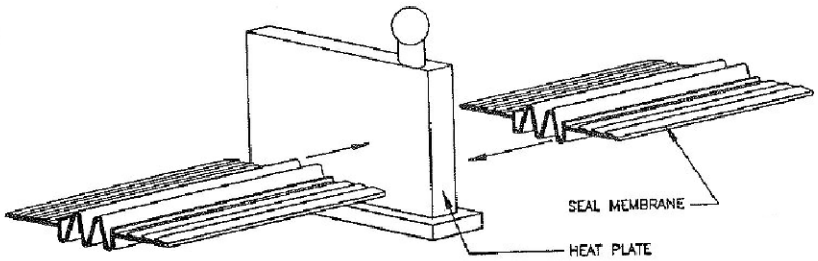
Notes:

1. At all vertical changes in direction, utilize 1/4" dia sleeve anchors to properly secure seal flap to base of blockout corner.

MEMBRANE 201



MEMBRANE 101



9

Recommended Method:

- Using a miter box and back saw with no teeth cut seal ends square.
- Preheat heat plate to 425°, Approximately 5 minutes.
- Touch the heat plate. Leave the gland touching the heat plate for about 1-2 minutes.
- Remove seals. Once edges have been aligned apply enough pressure to cause the ends of the glands to slightly protrude upwards. Allow approximately 3 to 4 minutes of cure time prior to releasing pressure.

Secondary method:

- Using a miter box and back saw with not teeth cut seal ends square.
- Clean ends of seal and apply PP Primer. Allow PP Primer to dry for 2 minutes before applying 241F adhesive.
- Apply 241F Adhesive to one side only and hold seals together for 45 seconds. Let cure for 2-3 minutes. (For best results, bond small portions of the seal at a time)
- Splice will reach full strength in 24 hours.

Touch Up:

Using soldering gun with a flat tip, run along the splice to make any touch ups. Careful not to burn any holes in the seal.

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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:

- One unit of Wabo®Crete II will yield .60 cu. ft.
- One unit of Wabo®Crete II = 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 Wabo®Crete needed to complete the job.

Example

Based on a blockout size 3 1/2" wide x 3/4" deep x 30' long:
The calculation would be: (.0304 x 30)= .91 units. This calculation is for only **ONE** side of the bockout.

Curing of Wabo®Crete:

Wabo®Crete II is an ambient cure material. Cure times are therefore, temperature dependant. Suggested cure times are listed below:

Cure Time:	21° - 32°C(70°-90°F)	- 1 to 1 1/2 Hours
(Open to Traffic)	10° - 21°C(50°-70°F)	- 1 1/2 to 2 Hours
	4° - 10°C(40°-50°F)	- 2 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 Wabo®Crete 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..

Units of WaboCrete II = Chart Value x linear footage of Blockout

		Blockout Width											
		0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00
Blockout Depth	0.25	0.0014	0.0029	0.0043	0.0058	0.0072	0.0087	0.0101	0.0116	0.0130	0.0145	0.0159	0.0174
	0.50	-	0.0058	0.0087	0.0116	0.0145	0.0174	0.203	0.0231	0.0260	0.0289	0.0318	0.0347
	0.75	-	-	0.0130	0.0174	0.0217	0.0260	0.0304	0.0347	0.0391	0.0434	0.0477	0.0521
	1.00	-	-	-	0.0231	0.0289	0.0347	0.0405	0.0463	0.0521	0.0579	0.0637	0.0694
	1.25	-	-	-	-	0.0362	0.0434	0.0506	0.0579	0.0651	0.0723	0.0796	0.0868
	1.50	-	-	-	-	-	0.0521	0.0608	0.0694	0.0781	0.0868	0.0955	0.1042
	1.75	-	-	-	-	-	-	0.0709	0.0810	0.0911	0.1013	0.1114	0.1215
	2.00	-	-	-	-	-	-	-	0.0926	0.1042	0.1157	0.1273	0.1389
	2.25	-	-	-	-	-	-	-	-	0.1172	0.1302	0.1432	0.1563
	2.50	-	-	-	-	-	-	-	-	-	0.1447	0.1591	0.1736
	2.75	-	-	-	-	-	-	-	-	-	-	0.1751	0.1910
	3.00	-	-	-	-	-	-	-	-	-	-	-	0.2083

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