

**TECHNICAL BULLETIN — Roofing Systems**

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**Ozone Transport Commission (OTC) Model Rule for Adhesives and Sealants  
 Effective May 1 – September 30, 2011**

As you may be aware, the OTC (Ozone Transport Commission) has developed a Model Rule federally mandating standards that limit emissions of volatile organic compound (VOC) content in adhesives, sealants and primers in the Northeast and Mid-Atlantic states.

**When will the rules take effect?**

For 2011, the rules for single ply products will apply from May 1 through September 30, in most states. The restrictions for **bituminous adhesives, primers and sealants are applicable year round** and are therefore currently in effect.

**What does the Model Rule for Adhesives and Sealants prohibit?**

The rule prohibits the sale, offering for sale, or use of non-compliant adhesives and sealants as set forth below.

In each of the states having final rules, the limitations for adhesives and sealants are as follows:

- Bituminous adhesives and sealants are limited to 300 g/L of VOC
- Single ply adhesives and adhesive primers are limited to 250 g/L of VOC
- Single ply sealants are limited to 450 g/L of VOC
- Single ply cleaners are limited to a maximum vapor pressure of 45 mm Hg @ 20°C

**What States are immediately affected?**

State	Adopted	Comments
Connecticut	Yes	In effect. Applies to use only (not the sale) for single ply products until 2012. Bituminous in effect year round.
Delaware	Yes	In effect. Bituminous in effect year round.
<b>Maine</b>	<b>Yes</b>	<b>In effect. Applies to use only (not the sale) for single ply products until 2012. Bituminous in effect year round.</b>
Maryland	Yes	In effect. Bituminous in effect year round.
New Jersey	Yes	In effect. Bituminous in effect year round.
<b>New York</b>	<b>Yes</b>	<b>In effect. Applies to use only (not the sale) for single ply products until 2012. Bituminous in effect year round.</b>
Rhode Island	Yes	In effect. Bituminous in effect year round.
Virginia	Yes	In effect. Applies to use only (not the sale) for single ply products until 2012. Bituminous in effect year round. Rules apply only in the following areas: <u>Northern Virginia Emissions Control Area:</u> Alexandria County, Alexandria City, Arlington County, Fairfax County, Fairfax City, Falls Church City, Loudoun County, Prince William County, Stafford County, Manassas City, Manassas Park City  <u>Fredericksburg Emissions Control Area:</u> Fredericksburg City, Spotsylvania County

**Items in bold are new for 2011**

**What is the timeframe for the remaining States?**

Not all OTC States have finalized their rules for adhesives and sealants. As of the date of this letter, only the States in the table above are immediately affected. Pennsylvania has adopted a rule but it is not effective until 2012. The other remaining states (Massachusetts, New Hampshire, Vermont, and the District of Columbia) are not expected to have restrictions in 2011.

**What JM products are affected?**

This rule applies to any adhesives, sealants and primers sold by Johns Manville Roofing Systems. The following table identifies the JM products that are affected and if not compliant, provides a recommended compliant alternative solution.

**How does this affect your company?**

JM will not sell or offer for sale any single ply adhesives, primers or sealants where such sale is prohibited by these rules in the states listed above between May 1, 2011 and September 30, 2011.

The restrictions for bituminous adhesives, primers and sealants are applicable year round and are therefore currently in effect. Only compliant products should be sold, offered for sale or used as noted in the table.

If you have any questions, please contact your local sales representative.

Joe Smith  
Director of Marketing

Product Family	Product Name	SKU	Regulated Category	VOC Content or Vapor Pressure	Packaging	OTC Compliant	OTC Compliant Existing JM Product Alternative	Comments
Single Ply	JM Single Ply Caulk	70000742 70000539	Sealant	VOC - 450 g/L	10.5 oz tubes	Yes		For use with all JM single ply membranes.
	JM Single Ply Membrane Cleaner (Low VOC)	70000608	Cleaner	Vapor Pressure 20°C 828 mbar at 50°C	1 gal cans & 5 gal cans	Exempt		For use with JM TPO and JM PVC only.
	JM Single Ply Sealing Mastic	70000289	Sealant	VOC - 108 g/L	(10) 11 fl oz tubes	Yes		For use with all single ply membranes.
EPDM	JM EPDM Bonding Cement (Solvent Based)	70000076	Adhesive	VOC - 659 g/L	5 gal cans	No	JM EPDM Bonding Cement Water Based or Low VOC	
	JM EPDM Bonding Cement (Water Based)	70000077	Adhesive	VOC - 2.46 g/L	5 gal cans	Yes		
	JM EPDM Bonding Cement (Low VOC)	70000626	Adhesive	VOC - <250 g/L	5 gal cans	Yes		
	JM EPDM Lap Caulk	70000072	Sealant	VOC - <450 g/L	10.3 fl oz cartridges	Yes		
	JM EPDM Lap Cement	70000075 70000078	Adhesive	VOC - 654 g/L	1 gal cans	No	JM EPDM Seam Tape 70000097 & 70000098	
	JM EPDM Splice Cleaner	70000082	Cleaner	Vapor Pressure 10.2 mm Hg @ 20°C	5 gal cans	Yes		
	JM EPDM Tape Primer/Wash	70000080 70000081	Primer	VOC - 696 g/L	2.5 gal cans & 1 gal cans	No	JM EPDM Tape/Primer Wash (Low VOC)	
	JM EPDM Tape Primer/Wash (Low VOC)	70000636	Primer	VOC - 243 g/L	1 gal cans	Yes		
JM EPDM/PVC Pourable Sealer	70000071	Sealant	VOC - <15 g/L	Part A: 1 gal can Part B: 1 pint container	Yes			
PVC	JM PVC Membrane Adhesive (Low VOC)	70000240	Adhesive	VOC - 199.4 g/L	5 gal cans	Yes		
	JM PVC Membrane Adhesive (Water Based)	70000241	Adhesive	VOC - 151.5 g/L	5 gal cans	Yes		
	JM PVC Polyurethane Caulk	70000244 70000243	Sealant	VOC - 125 g/L	10.3 fl oz tubes	Exempt		
	JM PVC Sealant	70000298	Sealant	VOC - 757.3 g/L	16 oz bottles	Exempt	Not necessary with non wicking reinforcement (current product)	
TPO	JM TPO Edge Caulk	70000539	Sealant	VOC - 412 g/L	10.3 oz tubes	Yes		
	JM TPO Edge Sealant	70000286, 70000287, 70000288	Sealant	VOC - 970 g/L	16 oz bottles	Exempt		
	JM TPO Membrane Adhesive (Low VOC)	70000292	Adhesive	VOC - <250 g/L	5 gal cans	Yes		
	JM TPO Membrane Adhesive (Solvent Based)	70000540	Adhesive	VOC - 660 g/L	5 gal cans	No	JM TPO Membrane Adhesive (Low VOC)	
	JM TPO Membrane Adhesive (Water Based)	70000291	Adhesive	41.7 g/L	5 gal cans	Yes		
	JM TPO Membrane Cleaner	70000295 70000294	Cleaner	Vapor Pressure 8 mm Hg @ 20°C	5 gal cans & 1 gal cans	Yes		
	JM TPO Membrane Primer	70000543	Primer	VOC - 693 g/L	3 gal cans	No	JM TPO Membrane Primer (Low VOC)	
	JM TPO Membrane Primer (Low VOC)	70000744	Primer	VOC - 235 g/L	3 gal cans	Yes		
JM TPO Pourable Sealer A & B	70000289	Sealant	VOC - 7.72 g/L (A), 20.6 g/L (B)	Part A: 1 gal cans Part B: 1 pint containers	Yes			

Product Family	Product Name	SKU	Regulated Category	VOC Content or Vapor Pressure	Packaging	OTC Compliant	OTC Compliant Existing JM Product Alternative	Comments
BUR and Modified Bitumen (Effective Year Round)	Bestile Utility Cement	70000806	Adhesive	VOC - 270 g/L	5 gal cans	Yes		
	BUR Adhesive	70000020 70000019	Adhesive	VOC - 250 g/L	5 gal cans & 55 gal drums	Yes		
	MBR Bonding Adhesive Activator	70000027	Adhesive	VOC - 0 g/L	0.60 gal bottles	Yes		
	MBR Bonding Adhesive Base	70000028	Adhesive	VOC - 0 g/L	4.4 gal cans	Yes		
	MBR Cold Application Adhesive	70000015 70000016	Adhesive	VOC - 210 g/L	5 gal cans & 55 gal drums	Yes		
	MBR Flashing Cement Activator	70000034	Adhesive	VOC - 0 g/L	44.1 oz bottles	Yes		
	MBR Flashing Cement Base	70000032	Adhesive	VOC - 99 g/L	4.35 gal cans	Yes		
	MBR Flashing Cement Cartridges	70000038	Adhesive	VOC - 99 g/L	28.7 oz cartridges	Yes		
	MBR Utility Cement - Summer & Winter grade	70000035 70000036	Adhesive	VOC - 250 g/L	5 gal cans	Yes		
	PermaFlash Kit	70000663	Primer	VOC - 743 g/L	16 oz bottles	Exempt		
	PermaFlash Primer	70000664	Primer	VOC - 743 g/L	16 oz bottles	Exempt		
	SeamFree Liquid Membrane Activator	70000698	Adhesive	VOC - 0 g/L	44.1 oz bottle	Yes		
	SeamFree Liquid Membrane Base	70000689	Adhesive	VOC - 121 g/L	4.4 gal cans	Yes		
	Two-Part Green UIA - Cartridge	70000551	Adhesive	VOC - 10 g/L	1,500 ml cartridges	Yes		
	Two-Part Green UIA - Part 1	70000552	Adhesive	VOC - 10 g/L	5 gal bag in a box	Yes		
	Two-Part Green UIA - Part 2	70000553	Adhesive	VOC - 10 g/L	5 gal bag in a box	Yes		
	Two-Part UIA cartridge	70000022	Adhesive	VOC - 10 g/L	1,500 ml cartridges	Yes		
	Two-Part UIA Part 1	70000023	Adhesive	VOC - 10 g/L	5 gal bag in a box	Yes		
	Two-Part UIA Part 2	70000024	Adhesive	VOC - 10 g/L	5 gal bag in a box	Yes		
	Two-Part Full Coverage UIA Part 1	70001355 70000639	Adhesive		15 gal & 50 gal	Yes		
Two-Part Full Coverage UIA Part 1		Adhesive	VOC - 0 g/L	15 gal & 50 gal	Yes			
Urethane Insulation Adhesive	70000021	Adhesive	VOC - 0 g/L	1 gal cans	Yes			