

## Dow Construction Chemicals Product Summary Table

### Elastomeric Roof Coating Technologies



Construction Chemicals

100% ACRYLIC ELASTOMERIC ROOF COATING BINDERS									
PRODUCT	APPLICATION/FEATURES	SOLIDS %	pH	VISUAL MFFT °C	Tg ONSET °C	DENSITY LB/GAL DRY	DENSITY LB/GAL WET	PARTICLE SIZE, NM (AVG)	APPLICATION SUBSTRATES
RHOPLEX™ EC-1791	Versatile, robust 100% acrylic polymer. Excellent adhesion to a wide range of roofing substrates, especially sprayed polyurethane foam (SPF). Excellent low-temperature flexibility and dirt pickup resistance. Passes ASTM D6083 and Title 24 Table 118-B requirements.	55.0	9.0 - 10.0	0	-40	9.00	8.70	350	Weathered mod-bit, smooth and granulated asphalt, metal, SPF, EPDM <sup>1</sup>
RHOPLEX™ EC-1791QS	100% acrylic polymer. Analogous properties to RHOPLEX™ EC-1791, but with improved resistance to early light rain, mist and high humidity. Passes ASTM D6083 and Title 24 Table 118-B requirements.	51.0	9.0 - 10.0	0	-40	9.02	8.68	350	Weathered mod-bit, smooth and granulated asphalt, metal, SPF, EPDM <sup>1</sup>
RHOPLEX™ EC-2540	100% acrylic polymer. Good balance of flexibility and dirt pickup resistance. Ideal for moderate climates. Good asphalt bleed resistance. Low tackiness.	55.0	9.0 - 9.8	0	-15	9.15	8.76	350	Mod-bit and asphaltic substrates, metal
RHOPLEX™ EC-2885	100% acrylic polymer. Highest tensile strength and elongation properties. Excellent hail damage resistance and adhesion to SPF. Passes ASTM D6083 and Title 24 Table 118-B requirements.	55.0	7.2 - 8.0	0	-35	8.80	8.60	350	Typically for SPF; can be used over same substrates as EC-1791 except EPDM
RHOPLEX™ EC-3000	100% acrylic polymer with improved resistance to hard rain in much less time than conventional emulsion polymer technology.	55.0	10.0 - 10.5	0	-40	8.97	8.65	350	Weathered mod-bit, smooth and granulated asphalt, metal, SPF, EPDM <sup>1</sup>
RHOPLEX™ EC-3100	100% acrylic polymer with improved adhesion to weathered TPO (thermoplastic polyolefin) roofing membrane.	55.0	10.0 - 10.5	0	-35	8.98	8.66	350	Weathered TPO
LIPACRYL™ MB-3640	100% acrylic polymer. Excellent dry and wet adhesion to new modified bitumen substrates. Excellent asphalt bleed resistance.	55.0	6.5 - 7.5	0	-15	8.85	8.60	310	New mod-bit and asphaltic substrates

ACRYLIC/STYRENE ELASTOMERIC ROOF COATING BINDERS									
PRODUCT	APPLICATION/FEATURES	SOLIDS %	pH	VISUAL MFFT °C	Tg ONSET °C	DENSITY LB/GAL DRY	DENSITY LB/GAL WET	PARTICLE SIZE, NM (AVG)	APPLICATION SUBSTRATES
RHOPLEX™ 2019RX	General purpose, value-engineered binder with lower water vapor permeance than the 100% acrylics.	55.0	7.0 - 9.2	0	-15	8.84	8.61	350	Weathered mod-bit, weathered asphalt, metal, concrete

<sup>1</sup>RHOPLEX™ EC-1791, EC-1791QS and EC-3000 performance over low slope EPDM roofs requires the use of Rinseable Primer RP-1 or RP-2 technology.

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RINSEABLE PRIMERS FOR EPDM									
PRODUCT	APPLICATION/FEATURES	SOLIDS %	pH	VISUAL MFFT °C	T <sub>g</sub> ONSET °C	DENSITY LB/GAL DRY	DENSITY LB/GAL WET	PARTICLE SIZE, NM (AVG)	APPLICATION SUBSTRATES
Rinseable Primer RP-1	Rinseable Primer RP-1 is a low viscosity sprayable liquid used to pretreat black EPDM rubber roof membrane prior to power washing and application of the roof coating. The unique chemistry of RP-1 is designed for use only with RHOPLEX™ EC-1791, and pretreatment with RP-1 significantly improves the adhesion of the coating to an EPDM rubber membrane.		13.0 - 13.5				8.46		EPDM
Rinseable Primer RP-2	Rinseable Primer RP-2 offers a lower pH version of RP-1 while still improving the adhesion of a recommended coating to EPDM rubber membranes.		6.0 - 8.0				8.46		EPDM

BASECOATS/PRIMERS TO BE USED UNDER ELASTOMERIC ROOF COATINGS									
PRODUCT	APPLICATION/FEATURES	SOLIDS %	pH	VISUAL MFFT °C	T <sub>g</sub> ONSET °C	DENSITY LB/GAL DRY	DENSITY LB/GAL WET	PARTICLE SIZE, NM (AVG)	APPLICATION SUBSTRATES
RHOPLEX™ CS-4000	Good sealer/primer polymer for concrete and other masonry surfaces. Long history of proven performance.	48.0	8.2 - 8.7	27	32	9.35	8.76		Concrete and other masonry
RHOPLEX™ EI-6000	Good sealer/primer polymer for concrete and other masonry surfaces. New technology with improved water whitening resistance and wet film clarity.	45.5	7.5 - 8.5	15	25	9.43	8.76		Concrete and other masonry
RHOPLEX™ EC-2540	Good asphalt bleed resistance. Recommended as primer for mod-bit and asphaltic substrates to stop asphalt bleed through. Can be used to meet Title 24 by using as primer followed by a Title 24 compliant topcoat.	55.0	9.0 - 9.8	0	-15	9.15	8.76	350	Mod-bit and asphaltic substrates, metal
LIPACRYL™ MB-3640	Good asphalt bleed resistance. Recommended as primer for mod-bit and asphaltic substrates to stop asphalt bleed through. Can be used to meet Title 24 by using as primer followed by a Title 24 compliant topcoat.	55.0	6.5 - 7.5	0	-15	8.85	8.60	310	New mod-bit and asphaltic substrates
AVANSE™ MV-100	Excellent adhesion to metal surface; excellent corrosion resistance. Ability to formulate <100 g/L VOC.	50.5	8.5 - 9.5	14.0	18	8.98	8.65		Metal
MAINCOTE™ PR-71	Excellent adhesion to metal surface; excellent corrosion resistance. Ability to formulate <200 g/L VOC.	50.0	8.5 - 9.5	20.0	20	9.10	8.70	190	Metal

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THICKENERS & RHEOLOGY MODIFIERS				
PRODUCT	APPLICATION/FEATURES	pH	2% BROOKFIELD VISCOSITY (cP)	OTHER FEATURES
CELLOSIZETM QP 4400H • Hydroxyethyl cellulose	<ul style="list-style-type: none"> <li>• Elastomeric roof coatings</li> <li>• EIFS finish coats</li> <li>• Waterborne coatings</li> <li>• Caulks and sealants</li> <li>• General thickening</li> </ul>	6.0 - 7.0	4,800 - 6,000	Non-ionic, delayed solubility
PRODUCT	APPLICATION/FEATURES	pH	1% BROOKFIELD VISCOSITY (cP)	OTHER FEATURES
CELLOSIZETM QP 15000H • Hydroxyethyl cellulose	<ul style="list-style-type: none"> <li>• Elastomeric roof coatings</li> <li>• EIFS finish coats</li> <li>• Caulks and sealants</li> </ul>	6.0 - 7.0	1,100 - 1,500	Non-ionic, delayed solubility
CELLOSIZETM QP 30000H • Hydroxyethyl cellulose	<ul style="list-style-type: none"> <li>• Elastomeric roof coatings</li> <li>• EIFS finish coats</li> <li>• Caulks and sealants</li> </ul>	6.0 - 7.0	1,500 - 2,400	Non-ionic, delayed solubility
CELLOSIZETM QP 52000H • Hydroxyethyl cellulose	<ul style="list-style-type: none"> <li>• Elastomeric roof coatings</li> <li>• EIFS finish coats</li> <li>• Caulks and sealants</li> </ul>	6.0 - 7.0	2,400 - 3,000	Non-ionic, delayed solubility
PRODUCT	APPLICATION/FEATURES	pH	2% BROOKFIELD VISCOSITY (cP)	OTHER FEATURES
WALOCEL™ MT 6000 PV • Hydroxyethyl methylcellulose	Waterborne coatings and general	Neutral	5,500 – 7,500	<ul style="list-style-type: none"> <li>• Delayed solubility</li> <li>• Very high thickening efficiency</li> </ul>
WALOCEL™ MT 30000 PV • Hydroxyethyl methylcellulose, modified	Waterborne coatings and general thickening, tape joint compounds	Neutral	28,000 – 35,000	<ul style="list-style-type: none"> <li>• Delayed solubility</li> <li>• Very high thickening efficiency</li> </ul>
WALOCEL™ MT 40000 PV • Hydroxyethyl methylcellulose	Waterborne coatings and general	Neutral	35,000 – 45,000	<ul style="list-style-type: none"> <li>• Delayed solubility</li> <li>• Very high thickening efficiency</li> </ul>
WALOCEL™ XM 40000 PV • Hydroxyethyl methylcellulose	Recommended thickener for LIPACRYL™-based elastomeric roof coating	Neutral	39,000 – 45,000	<ul style="list-style-type: none"> <li>• Delayed solubility</li> </ul>

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### DISPERSANTS – HYDROPHOBIC COPOLYMERS

PRODUCT	APPLICATION/FEATURES	SALT	SOLIDS %	USE LEVEL (ON PIGMENT)	BENEFITS
TAMOL™ 165A	High performance. For flat through gloss. Maximizes water resistance.	NH <sub>4</sub>	21.0	0.6% - 1.0%	<ul style="list-style-type: none"> <li>• Excellent early blister resistance and wet adhesion</li> <li>• Good color acceptance</li> <li>• Good gloss development and corrosion resistance</li> </ul>
TAMOL™ 731A	Extremely versatile. For acrylic, butadiene/styrene and vinyl acrylic latex paints.	Na	25.0	0.7% - 1.0%	<ul style="list-style-type: none"> <li>• Excellent overall compatibility</li> <li>• Good pigment wetting</li> <li>• Highly efficient performance</li> </ul>
TAMOL™ 681	High performance pigment dispersant for interior and exterior latex paints.	NH <sub>4</sub>	35.0	3.0% - 5.0%	<ul style="list-style-type: none"> <li>• Maximizes gloss potential</li> <li>• Good stability in paints containing ZnO and other reactive pigments</li> <li>• Good corrosion resistance</li> </ul>
TAMOL™ 2002	Hydrophobic dispersant in un-neutralized, emulsion form.	n/a	42.0	3.0% - 5.0%	<ul style="list-style-type: none"> <li>• Delayed solubility</li> <li>• Very high thickening efficiency</li> </ul>

### DISPERSANTS – POLYACID DISPERSANTS

PRODUCT	APPLICATION/FEATURES	SALT	SOLIDS %	USE LEVEL (ON PIGMENT)	BENEFITS
TAMOL™ 851	Economical dispersant for flat through semi-gloss latex paints.	Na	30.0	0.6% - 1.0%	<ul style="list-style-type: none"> <li>• Highly efficient with low-foam generation</li> <li>• Excellent stability in paints containing ZnO and other reactive pigments</li> </ul>
TAMOL™ 901	Designed for traffic paint applications.	NH <sub>4</sub>	30.0	0.6% - 1.0%	<ul style="list-style-type: none"> <li>• Low-foam generator, excellent stability</li> <li>• Ammonia version of TAMOL 851</li> </ul>

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