



ADHESION WITH PURPOSE

Enabling Sustainable Packaging with
Water-based Primers and Coatings

www.mica-corp.com



Solving the Industry's Toughest Adhesion Challenges Since 1971



Water-based primers and coatings for adhesion and beyond.



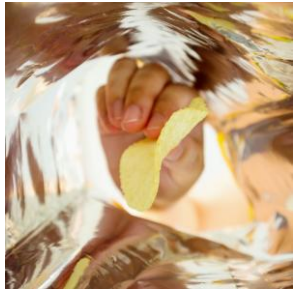
We are committed to quality and customer service.



We are enabling a sustainable future for packaging with innovation and expertise.

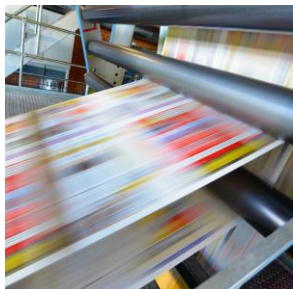
Product Portfolio Summary

Mica's water-based product portfolio is comprised of 5 major categories.



Extrusion Coating & Extrusion Lamination Primers

MICA Extrusion Primers are designed to meet a large variety of demands for paper, thin-film, foil, polywovens, SiO_x and AlO_x biodegradable, compostable, reusable, and recyclable structures.



Specialty Primers

MICA Specialty Primers are used to improve adhesion of metal layers deposited on a variety of substrates.



Barrier Coatings

MICA Barrier Coatings are designed to meet your specific performance needs for oxygen barrier and oil and grease resistance.



Heat Seal Coatings

MICA Heat Seal Coatings offer varying peel strengths and sealing characteristics for a range of direct and indirect food packaging applications.



OPV

MICA OPV provides matte, and gloss finishes to the films, which can not only be used over the print, but also on unprinted side.

MICA Primer & Coating Portfolio

Extrusion Coating & Extrusion Lamination Primers

MICA	Solids (%)	pH (25°C)	Bond (gf/inch)	Visc. (cp)	Shelf Life	FDA HALAL	Adhesion Improvement
A-131-X	4.7	10.7	200-880	<25	18	Yes/Yes	Clear & Printed film//PE, Copolymer, Ionomer
H-760-A	11.5	9.0	240-1000	<50	18	Yes/Yes	Clear & Printed Film, Paper//PE, Copolymer, Ionomer, Biodegradable
H-788	21	10-11	105-530	<100	18	Yes/Yes	Outside of Paper Cups
A-251-A	20	10	107-1000	<50	18	Yes/No	Metallized Film, Aluminum Foil //PE
M-1164	10	11	160-1000	<100	12	Yes/Yes	Aluminum Foil//PE, Copolymer, Ionomer, ink
G-1092	5	10	120-2650	<100	12	Yes/No	Metallized Film, Aluminum Foil, AlO _x //PE, Copolymer, Ionomer
R-1595	5	11	140-1180	<100	18	Yes/No	Clear & Printed Film// Copolymer (low process temperature)
R-1509-C	50	5	120-320	<800	12	Yes/No	Paper//PHA, Polyester
M-2420	4	11	220-1085	<100	12	Yes/Yes	Clear & Printed Film// Copolymer (Polaroid test, Retort)
R-1207	8	11	80-880	<100	12	Yes/No	Paper//PP
G-782	5	9	430-900	<100	12	Yes/No	SiO ₂ , AlO _x //PE, Copolymer, Ionomer

Compostable

MC-634	30	5.5	650-800	<355	12	Yes/Yes	Paper//PLA
EL-1473	40	8.5	200-550	<200	6	Yes/No	Paper//PHA, PBS

MICA Primer & Coating Portfolio

Specialty Primers

MICA	Solids (%)	pH (25°C)	Bond (gf/inch)	Visc. (cp)	Shelf Life	FDA/ HALAL	Adhesion Improvement
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Metallization Primer

EL-1277	40	8	100	<200	12	Yes/No	Clear Film//Metal
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Digital Printing Primer

YZ-1112	12	9		<150	18	Yes/Yes	Clear Film, paper//digital print
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Barrier Coatings

MICA	Solid (%)	pH (25°C)	Barrier (cc/m2/day)	Visc. (cp)	Shelf Life	FDA HALAL	Oxygen Barrier Improvement
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Oxygen Barrier

EL-1241	10	11.5	0.6-1	<100	9	Yes/Yes	Mono-material films, PET, Metallized film//adhesive/sealant
EL-1241-HS	13	11.5	0.6-1	<400	9	Yes/Yes	Mono-material films, PET, Metallized film//adhesive/sealant

OGR

EL-1808 	40	8.5	Kit=10, Cobb=33	<2000	6	TBD	Paper, Paper Board
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MICA Primer & Coating Portfolio

Heat Seal Coatings

MICA	Solids (%)	pH (25°C)	Seal (gf/15 mm)	SIT (°C)	Visc. (cp)	Shelf Life	FDA/ HALAL	Application
HME-118-C	40	7	250-350	60	<400	12	Yes/Yes	Film, paper
M-2824	45	8	350-500	116	<100	9	Yes/No	Paper

Repulpable

EL-1813	35	8	700	93	<200	12	Review	Paper (Cobb =2 on 18 pt paper board)
G-680	20	10	100-270	85	<50	18	Yes/No	Paper

Compostable

EL-1808	40	8.5	240-370	48	<2000	6	Review	Paper
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OPV

MICA	Solids (%)	pH (25°C)	Heat Resistance	Gloss (60°)	Visc. (cp)	Shelf Life	FDA/ HALAL	Application
LV-253	38.6	8.6	>500°F	<10	650	TBD	TBD	Clear film

Packaging Structure Examples

Clear & Printed films

OPET/Ink/**Primer**/LDPE_x/LLDPE or Sealant

OPP/Ink/**Primer**/ LDPE_x/LLDPE or Sealant

OPP/Ink/**Primer**/PP_x

Polywoven Bags

OPP/Ink/**Primer**/(LDPE+PP+Tie)_x/PP woven

Paper & Biodegradable

Primer/Cup Board/LDPE_x or PLA_x

Ink/Paper/Met/**Primer**/PVOH_x/Tie/Sealant

Ink/Paper/**Primer**/PHA_x or PBS

Ink/Paper/Starch_x/**Primer**/Films

Foil and Metallized Films

OPET/Ink/**primer**/LDPE_x/Alu. Foil/**Primer**/EVA_x or Ionomer_x

OPET/Met/**Primer**/PP_x

OPP/ink/adhesive/Met/OPET/**Primer**/LDPE_x/LLDPE

AlO_x, SiO_x Coated Films

OPE/AlO_x/**Primer**/LDPE_x

OPET/SiO_x/**Primer**/LDPE_x

Metallization

Film/**Primer**/V.M.

Barrier, Heat Seal, Varnish

OPE/Ink/**Barrier**/Adhesive/LLDPE or Sealant

Print/Paper/**Heat Seal**

PET/**Varnish**

LET'S CREATE A SUSTAINABLE FUTURE FOR PACKAGING TOGETHER



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