ENCOR® 662 Acrylic Latex

Excellent Scrub and Stain Resistance, and Washability in Low VOC Architectural Coatings

ARKEMA
INNOVATIVE CHEMISTRY

Product Description

ENCOR® 662 is a 100% acrylic latex designed to provide excellent scrub performance, stain resistance, washability and block resistance in zero to low VOC interior architectural coatings.

Polymer Design

100% Acrylic

Performance Benefits

- Optimized for flat to semi-gloss sheens
- Excellent abrasive scrub resistance in low VOC formulations
- Balanced washability profile for hydrophobic and hydrophilic stains
- Good block resistance
- Designed for use with non-volatile coalescents
- EnVia® certified to simplify sustainable formulating[2]

Typical Properties[1]

Appearance	White, milky liquid
Total Solids, % by weight	50.0
Density, lbs/gal	8.8
pH Value	8.0 – 9.0
Viscosity, Brookfield, cP	50 – 500
Particle Size, micron	0.20
MFFT, ºC	14

[1] The data provided for these properties are typical values, intended only as guides, and not to be construed as sales specifications.
[2] This product meets the standards of Arkema Coating Resins' EnVia® program. These products are designed to assist formulators in meeting their sustainability and regulatory goals in their finished products.

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Performance Data

Formulation – Semi-gloss, Zero VOC

The following data were obtained from tests using a semi-gloss, zero VOC formulation using a non-VOC containing coalescing solvent.

STAGE	MATERIAL	LBS	GALLONS
GRIND	Water	150.00	17.99
	Proxel® GXL	1.90	0.21
	AMP-95®	3.20	0.43
	Coadis® 144A	8.00	0.91
	Rhodoline® 643	2.00	0.25
	Titanium Dioxide Slurry	200.00	10.42
	Minex® 7	75.00	3.46
	Optifilm™ 400	8.30	1.09
LETDOWN	ENCOR® 662	530.00	59.55
	Rhodoline® 643	2.00	0.25
ADD GRIND TO PRETHIN UNDER AGITATION (700 RPM OR LESS)			
WASH	USE WASH WATER TO RINSE GRIND POT		
	Water	24.90	2.99
ADD WHILE MIXING	Rheotech™ 3800	10.00	1.14
	Coapur™ 2025	3.00	0.35
		1018.30	**99.04**

Typical Properties as Formulated

PVC	23%
Volume Solids	36%
Volatiles%*	0%

*based on using non–VOC coalescing solvent

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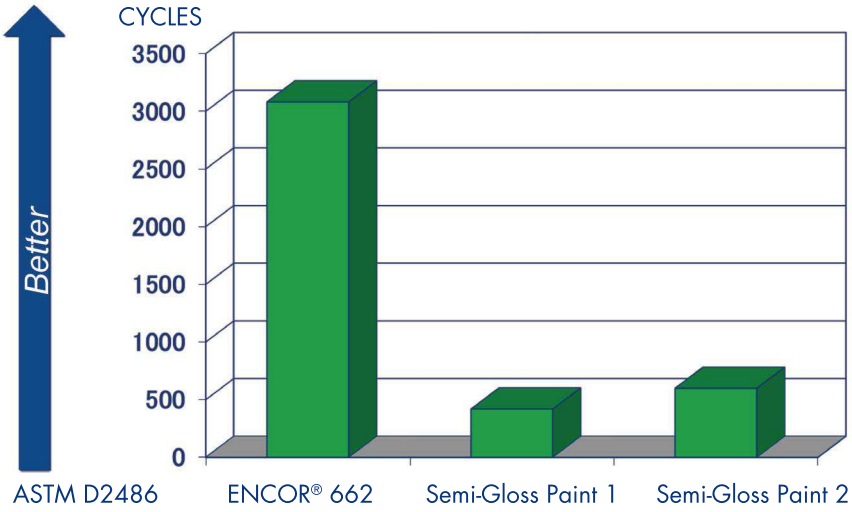
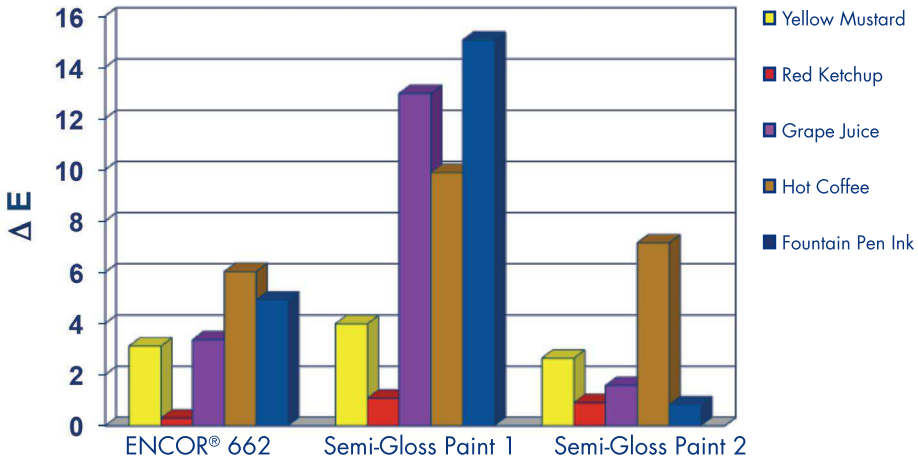
Scrub Resistance

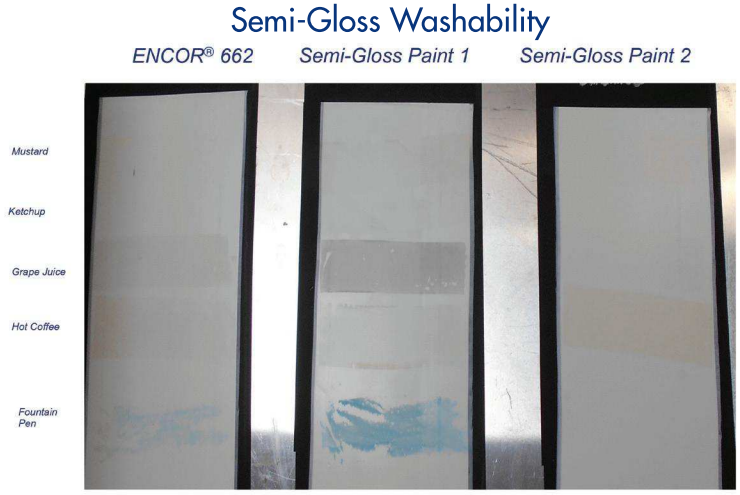
The coating based on ENCOR® 662 latex displays outstanding scrub resistance compared to commercially available competitive coatings.



Washability – Common Household Stains

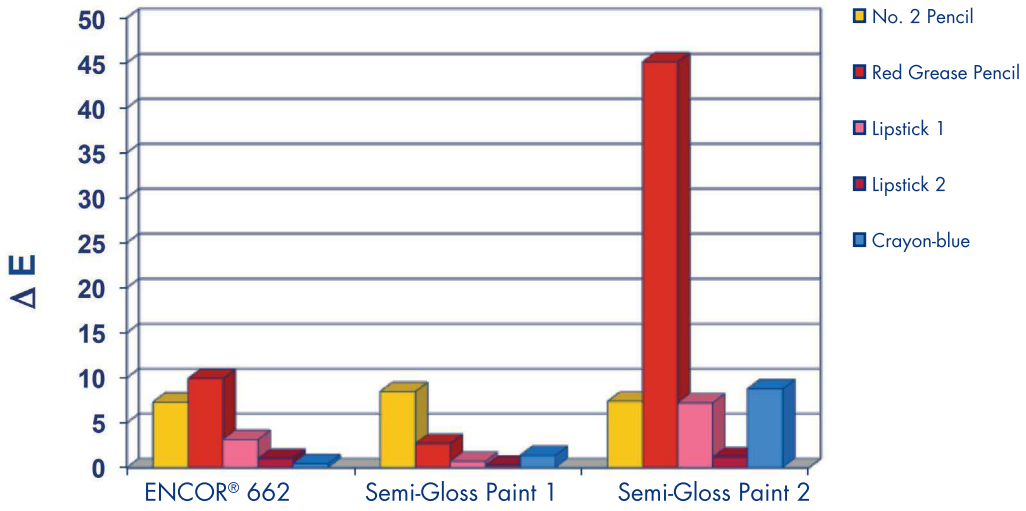
Coatings based on ENCOR® 662 latex show comparable or improved washability compared to commercially available competitive semi-gloss formulations.





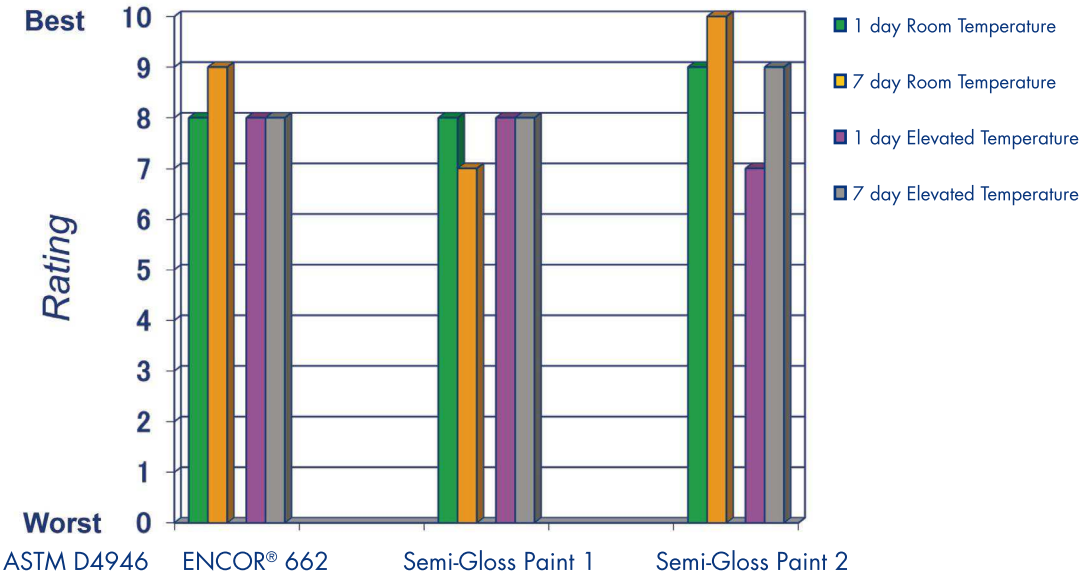
Washability – Cosmetics and Household Inks

Coatings based on ENCOR® 662 latex display comparable or improved resistance to cosmetics and household inks compared to commercially available competitive semi-gloss formulations.



Block Resistance

Coatings based on ENCOR® 662 latex display comparable block resistance compared to commercially available competitive semi-gloss formulations.



Performance Data

Formulation – Flat, Zero VOC

The following data were obtained from tests using a semi-gloss, zero VOC formulation using a non-VOC containing coalescing solvent.

STAGE	MATERIAL	LBS	GALLONS
GRIND	Water	200.00	23.98
	Proxel® GXL	1.90	0.21
	AMP-95®	5.20	0.70
	Coadis® 144A	12.00	1.36
	Rhodoline® 643	2.00	0.25
	Ti-Pure® R-746 Slurry	200.00	10.42
	Minex® 4	100.00	4.61
	OPTIWHITE®	100.00	4.53
	Optifilm™ 400	8.30	1.09
LETDOWN	ENCOR® 662	440.00	49.44
	Rhodoline® 643	2.00	0.25
ADD GRIND TO PRETHIN UNDER AGITATION (700 RPM OR LESS)			
WASH	USE WASH WATER TO RINSE GRIND POT		
	Water	20.00	2.40
ADD WHILE MIXING	Rheotech™ 3800	10.00	1.14
	Coapur™ 2025	3.00	0.35
		1104.40	**100.73**

Typical Properties as Formulated

PVC	40%
Volume Solids	37%
Volatiles%*	0%

*based on using non–VOC coalescing solvent

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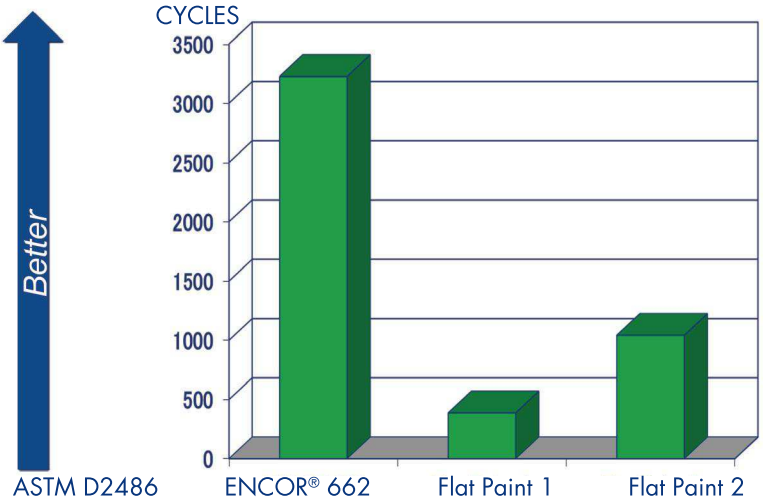
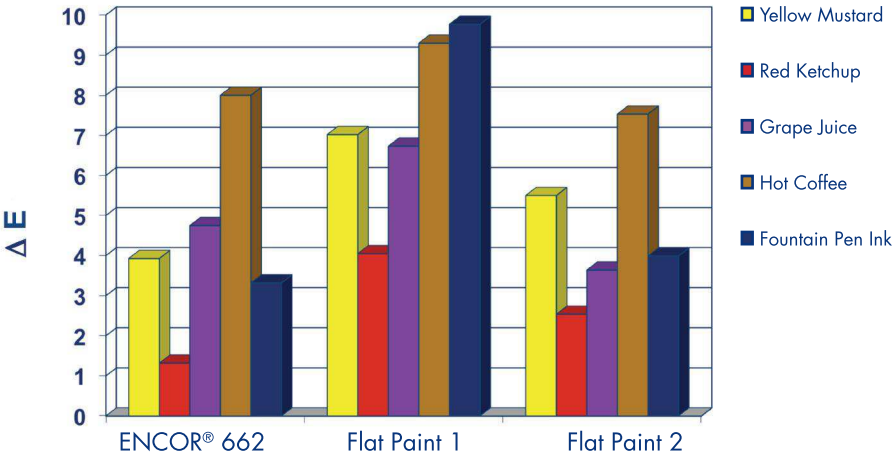
Scrub Resistance

Coatings based on ENCOR® 662 latex display outstanding scrub resistance compared to commercially available competitive flat formulations.



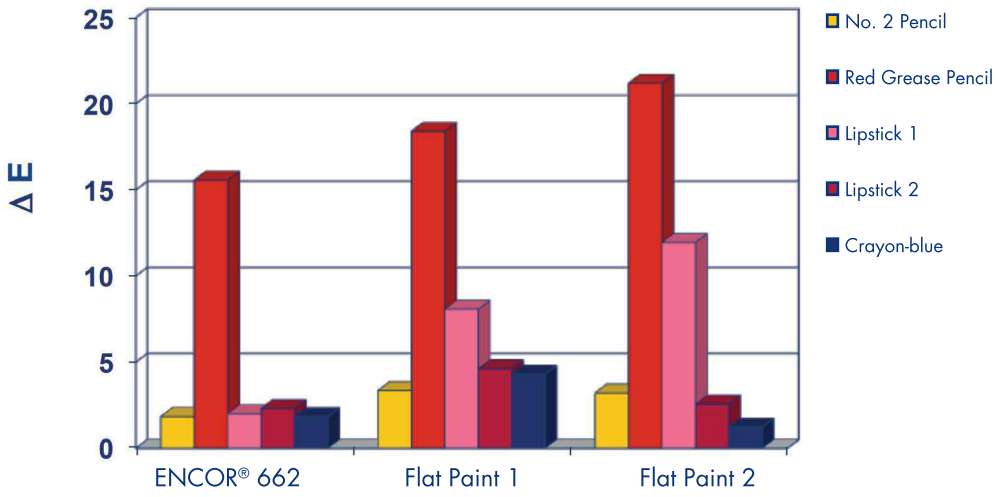
Washability – Common Household Stains

Flat sheen coatings based on ENCOR® 662 latex typically outperformed competitive products in washability of hydrophilic stains.



Washability – Cosmetics and Household Inks

Flat sheen coatings based on ENCOR® 662 latex display improved resistance to typical hydrophobic stains compared to commercially available competitive flat formulations.



Formulating Guidelines

Care should be taken when selecting the coalescent / pigment dispersant combination to retain washability.

Coalescent Choice

- Traditional coalescing agents such as Texanol™ may be used with ENCOR® 662.
- In addition, low VOC coalescing agents such as Optifilm™ 400 or dibenzoate blends may also be used successfully.

Dispersant Choice

- Many standard pigment dispersants work well with ENCOR® 662 latex.
- For low VOC formulations, Coadis™ 144 A offers good washability performance when used in combination with low VOC coalescing agents such as Optifilm™ 400 or K-FLEX® 975P.

Product Safety

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health and environmental information. For environmental, safety and toxicological information, contact our Customer Service Department at 1-866-837-5532 to find an MSDS, or visit our web site: www.arkemacoatingresins.com

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Arkema Coating Resins requests that the customer read, understand, and comply with the information contained in this publication and the current MSDS(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

Storage and Handling

ENCOR® 662 should be stored indoors in the original unopened and undamaged container, in a dry place at a temperature not exceeding 85° F (30° C). Exposure to direct sunlight should be avoided.

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