

# CYTEC



## Resins and Additives for Powder Coatings

**Product Range  
Asia Pacific**

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<sup>1</sup> Trademark of EMS-Chemie

From defining more efficient processes for mining customers to developing new additives for polymer-based alternatives to wood and metals, the product lines of Cytec Specialty Chemicals are unified in their dedication to customer-driven innovation.

Working closely with our customers, we develop revolutionary technologies that enable them to improve performance and productivity, enter new markets, and refine new applications. How to improve mine profitability or coatings efficiency in the face of important environmental concerns? How to develop polymers that really stand up to UV light? How to use phosphines to create better, safer biocides and fumigants for agriculture? Our technology and sales teams work on-site with customers every day to address today's business challenges and troubleshoot tomorrow's.

The applications are diverse, but the commitment is uniform: finding better solutions for customers through continual research, ongoing collaboration and a passion for innovation.

## An Expansive Portfolio

Cytec Specialty Chemicals is a complete solution provider for customers requiring high-value surface technologies in industries that include industrial coatings, automotive, architectural, wood and paper, graphics, adhesives and opto-electronics.

We offer our customers advanced and diverse products and technologies for surfaces with an emphasis on environmentally friendly products such as UV/EB (Ultra-violet/Electron beam) curable resins and additives, powder coating resins and additives, as well as waterborne and solventborne liquid coatings resins and additives. We are committed to working with our customers to develop environmentally advanced solutions and we are dedicated to open communication concerning the safe handling, distribution, use and disposal of the products we make.

## A Focus on Customer Satisfaction

Cytec Specialty Chemicals operates a globally integrated set of order fulfillment IT systems and processes. All Spec Chem personnel in the order

fulfillment processes are dedicated to delivering customer satisfaction through reliable and cost-effective supply of product to our customers. Cytec Spec Chem has specialized personnel in Customer Service, Procurement, Manufacturing, Planning and Logistics to achieve this goal. In addition to timely and accurate order fulfillment, there is an equally important focus on maintaining safety and protecting the environment at all steps in the process, from the procurement of raw materials to the delivery of finished goods to the customer's door.

## Dedication to Operational Excellence

Cytec's Spec Chem Manufacturing Organization operates globally to provide superior service to our customers in all regions. Our vision of operational excellence brings value to our customers through ongoing, continuous improvement initiatives, including Lean Manufacturing, Six Sigma Principles, and Best Practice Engineering. Our value proposition is driven by excellence in our Safety, Environmental, Quality Systems and Employee Development Programs. We are structured by business technology, which enables our sites to work transparently with R&D, Customer Service and the Businesses, to share best practices across common processes. We also are able to gain leverage from overall global manufacturing synergies to most efficiently meet customer needs.

## Key product lines

- Liquid Coating Resins and Additives
- Mining Chemicals
- Phosphine and Phosphorus Specialties
- Polymer Additives
- Powder Coating Resins and Additives
- RADCURE™ UV/EB Curable Resins and Additives
- Pressure Sensitive Adhesives
- Specialty Additives
- Specialty Urethanes

# 4 Introduction to Power Coating Resins and Additives

## One-Source Global Supplier

Cytec is a single-source, worldwide supplier of high-quality powder coating resins, hardeners and additives. We offer one of the broadest lines of resins for powder coating finishes, including top-name polyester resins, coupled with global product availability, and expert technical support.

## Leading-edge Technologies

Cytec continues to pioneer the development of innovative technologies for a wide range of surfaces:

- Superdurable resins for exterior powder applications
- Semi-crystalline polyesters for powder coating systems
- Resins for clearcoat and matte finishes
- Resins for low bake powder systems
- UV curing powder systems

Our newest resin technologies are designed for cutting-edge applications where powder paints are not widely used, including industrial and automotive finishes:

- High-performance exterior durable systems
- Natural and manufactured wood products
- Plastic and other heat-sensitive substrates

## Wide Selection of Top Products

As a leading global supplier of powder coating resins, hardeners and additives, Cytec offers one of the broadest choices of resins for powder coating finishes.

Proven worldwide, our extensive selection of **CRYLCOAT™** polyester resins include carboxyl and hydroxyl resins for hybrid, TGIC, glycidylester, hydroxy alkyl amide, urethane, and glycoluril powder coating systems.

For new technologies like UV curable powder coatings, we have one of the widest product ranges available, including **UVECOAT™** unsaturated resins.

Cytec's powder coating resin technologies also include **SYNTHACRYL™** acrylic resins and matting agents, specialty hardeners, and additives which can be supplied on a silica or resin carrier.

For improving flow and leveling characteristics in all types of coatings, the versatile **MODAFLOW™** product family is the benchmark name among flow modifiers and powder resins in the coatings industry.

Bringing value to the formulation of powder coatings are **ADDITOL™** masterbatch flow modifiers, catalysts and related products. Additionally, **BECKOPOX™** and **ADDITOL** specialty hardeners solve problems related to flow, and provide special textures or performance to finished coatings.



**Discover CRYLCOAT Primavera**

Products	Description
<b>Vehicle Binder Resins</b>	
<i>CRYLCOAT*</i>	Polyester powder resins including superdurable and semi-crystalline products – Hydroxyl (-OH) resins for polyurethane and glycoluril powder coatings. – Carboxyl (-COOH) resins for hybrid, TGIC, glycidylester and $\beta$ -HAA powder coatings.
<i>SYNTHACRYL*</i>	Glycidyl (GMA) acrylic powder resins and matting agents.
<i>UVECOAT*</i>	Unsaturated resins for UV-curable powder coatings.
<b>Curing Hardeners (Powder Crosslinkers)</b>	
<i>ADDITOL*</i>	Polyanhydride resin for epoxy functional (glycidyl) acrylics and urethane hardeners (where available) for hydroxyl binder resins.
<i>BECKOPOX*</i>	Anhydride-like resin for epoxy or hydroxyl functional binder resins.
<b>Powder Additives and Modifiers</b>	
<i>MODAFLOW*</i>	Powder resins flow modifiers on a silica carrier base.
<i>ADDITOL</i>	Flow additives, catalysts, and tribo masterbatches provided on resin carriers and photoinitiators to accelerate the cure of UV-curable powder coatings.
<i>SYNTHACRYL</i>	GMA acrylic matting agents.



- \**ADDITOL* - additives
- \**BECKOPOX* - epoxy resins
- \**CRYLCOAT* - polyester resins
- \**MODAFLOW* - flow modifiers
- \**SYNTHACRYL* - acrylic resins
- \**UVECOAT* - UV-curable resins

Thermoset powder coatings are typically cured in a temperature range of 160–200 °C (object temperature) for 10 minutes. Low temperature cure for heat sensitive substrates or for thick metallic objects is achieved through a combination of catalysis and/or longer oven dwell times. General cure guidelines for products listed in this bulletin are summarized below.

From the wide range of resins available, users can match the desired properties with the required coating performance.

As an alternative, UV powders can be applied. The powder is made to flow with a brief IR heating followed by exposure to ultraviolet light.

### Cure Temperature and Time Definitions








<b>Slow</b>	190 °C or greater for 10 min
<b>Medium</b>	170–180 °C for 10 min
<b>Fast</b>	160 °C for 10 min
<b>Low Bake</b>	150° or lower for 10–30 min

Products are presented in this guide using two approaches. The charts and tables in the first section organize products by a powder coating system, and summarize typical resin characteristics.

The second section allows formulators to select resins for a given coating effect. The color background used for each product in the charts helps to delineate special product features, as summarized in the table below.



### Resin Selection Guide

	<b>CRYLCOAT</b> polyester resins
	<b>CRYLCOAT</b> new generation polyester resins
	<b>CRYLCOAT</b> polyester resins systems for matte finishes
	<b>CRYLCOAT</b> polyester resins for low temperature curing
	<b>CRYLCOAT</b> Primavera polyester resins
	<b>ADDITOL, MODAFLOW,</b> and <b>SYNTHACRYL</b> systems and additives
	<b>UVECOAT</b> unsaturated resins for UV-curable powder coatings

# 7 Product Nomenclature (continued)

The Cytec product line for powder coatings has been renamed and renumbered to provide customers with a more logical understanding of the portfolio. The graphic sections of this guide

contains both the new and old product names. Translations describing how the new product names were derived, and what they stand for, are provided in the tables below.

## CRYLCOAT System – 5 Digit System

Digit 1	Digit 2	Digit 3 + 4	Digit 5
1 = Hybrid  2 = Standard outdoor 4 = Superdurable outdoor 8 = Crystalline 9 = Other	5 = 50/50 6 = 60/40 7 = 70/30 8 = 80/20  4 = TGIC 5 = PT 910 6 = Primid <sup>1</sup> 8 = Urethane	Whenever possible equivalent to last two digits of former product name	– 0 = Standard (no additives) – 1 = Tribo – 2 = Overbake – 3 = Tribo and overbake – 4 = Clear coat – 5 = Special – 6 = Low bake (<160 °C)

Example: **CRYLCOAT 1514-2** = 314  
 Digit 1: 1 for Hybrid; Digit 2: 5 for 50/50; Digits 3 + 4: 14 from 314 and Digit 5: 2 for Overbake.

## ADDITOL System

Masterbatch Type	Number
Flow aid	P 800–P 899
Tribo, catalysts, crosslinkers	P 900–P 999

## UVECOAT System

Type	Number
General purpose resin	1000–1999
Resins for metal substrates	2000–2999
Resin for wood and plastic	3000–3999
Specialty (i. e. Crystalline)	9000–9999

## SYNTHACRYL System

Type	Number
Acrylic	700–799



# Polyester Resins for Hybrid Powder Coatings

	50/50 AV ~ 70	60/40 AV ~ 60	60/40 AV ~ 50	70/30 AV ~ 34	80/20 AV ~ 25
200°C	CRYLCOAT 1541-4	CRYLCOAT 1622-0	CRYLCOAT 1650-2	CRYLCOAT 1702-0	
	CRYLCOAT E 04140	CRYLCOAT 1630-0	CRYLCOAT 1660-0		
			CRYLCOAT 1683-0		
			CRYLCOAT 1691-0		
			CRYLCOAT E 04116		
190°C			CRYLCOAT E 04048		
180°C	CRYLCOAT 1514-2		CRYLCOAT 1627-0	CRYLCOAT 1703-1	CRYLCOAT E 04143
	CRYLCOAT 1573-0		CRYLCOAT 1690-0	CRYLCOAT 1716-0	
			CRYLCOAT E 04148	CRYLCOAT 1770-0	
				CRYLCOAT 1781-0	
170°C		CRYLCOAT 1620-0		CRYLCOAT 1701-0	
		CRYLCOAT 1631-0			
160°C	CRYLCOAT 1540-0		CRYLCOAT 1696-0		
150°C			CRYLCOAT 1680-6		
140°C	CRYLCOAT 1506-6				
130°C	CRYLCOAT E 38051				

New Generation	Primavera	Low bake
1573-0	E 04048	1506-6
1627-0	E 04148	1540-0
1781-0		1680-6
E 04116		1696-0
E 04143		E 38051

# 9 Typical Properties for Hybrid Resins

CRYLCOAT	Ratio	AV	Viscosity	Tg (°C)	Cure T	TRIBO	OB	Description
1506-6	50/50	70	5300	62	140			Fast cure resin for metal application or for low bake texture formulation for MDF.
1514-2	50/50	70	9300(175°C)	55	180		●	Resin with excellent performance properties.
1540-0	50/50	70	8700(175°C)	58	160			Good balance of properties and good pigment wetting.
1541-4	50/50	71	9650(175°C)	55	200			Resin that combines good flow and over-bake resistance, suitable for clear coats.
1573-0	50/50	70	2500	56	180			General purpose resin with good compromise between flow and reactivity.
E 04140	50/50	72	10000(175°C)	60	200			High Tg resin with excellent flow out, suitable for thin film coatings.
E 38051	50/50	70	5000	52	130			Low bake resin for MDF coatings, excellent cure response at IRM (medium wave IR)- curing.
1620-0	60/40	60	2700	54	170			Excellent balance between reactivity and flow.
1622-0	60/40	60	2600	55	200			Very good properties and excellent flow. Suitable for use with matting hardeners.
1627-0	60/40	48	4000	62	180			General purpose resin. High Tg resin with good flow and pigment wetting properties.
1631-0	60/40	60	3000	62	170			High Tg resin with very good properties and flow.
1650-2	60/40	50	4200	55	200		●	Resin with good response to matting agent.
1660-0	60/40	48	8500(175°C)	50	200			Resin with excellent pigment wetting providing high gloss coatings with excellent flexibility and flow out.
1680-6	60/40	50	10800(175°C)	50	150			Fast cure or low bake resin with good flow and suitable for high filler load.
1683-0	60/40	50	4700	73	200			Resin with excellent solvent resistance.
1690-0	60/40	58	9500(175°C)	57	180			55/45 with excellent detergent- and overbake resistance, good flow out.
1691-0	60/40		10150(175°C)		180			Excellent detergent resistance.
1696-0	60/40	50	4800	56	160			Low bake resin with good balance of properties.
E 04116	60/40	48	3800	62	200			General purpose resin with a high Tg and very good properties. Excellent flow.
1701-0	70/30	30	6300	62	170			High Tg resin with good balance of properties Suitable for fast cure or low temperature cure. Accelerated version of CRYLCOAT 1702-0.
1702-0	70/30	30	6300	62	200			Very slow resin with outstanding flow. Uncatalysed version of CRYLCOAT 1701-0.
1703-1	70/30	30	4800	56	180		●	Tribo active and very good balance of properties. Excellent overbake resistance.
1716-0	70/30	30	6500	59	180			Excellent balance of properties and very high DOI.
1770-0	70/30	34	5500	58	180			Very good balance of properties.
1781-0	70/30	34	5000	63	180			General purpose resin. High Tg resin with good flow out.
E 04281	70/30	32	6000	59	180		●	For high gloss coatings with good mechanicals, gas-oven stabilized.
E 04143	80/20	24	10000	57	180			Low hardener demand hybrid resin with good mechanical properties, excellent matting characteristics.
E 04048	60/40	48	3500	57	190			Economic general purpose resin with outstanding boiling water resistance.
E 04148	60/40	48	3500	57	180			Economic general purpose resin with outstanding boiling water resistance.

# Polyester Resins for Primid Powder Coatings

	96/4-97/3 AV ~ 25	95/5 AV ~ 33	93/7-92/8 AV ~ 50	90/10-88/12 AV ~ 70	One Shot Matte STD	One Shot Matte SD	Superdurable
200 °C	CRYLCOAT 2691-2		CRYLCOAT 2620-2		CRYLCOAT E 04187	CRYLCOAT E 04245	CRYLCOAT 4420-0
					CRYLCOAT E 04211	CRYLCOAT E 04229	CRYLCOAT 4641-0
					CRYLCOAT E 04235	CRYLCOAT E 04193	
					CRYLCOAT E 04238	CRYLCOAT E 04251	CRYLCOAT 4642-3
190 °C	CRYLCOAT 2670-3		CRYLCOAT 2671-3	CRYLCOAT E 37250			CRYLCOAT 4626-0
							CRYLCOAT 4659-0
							CRYLCOAT E 36988
180 °C	CRYLCOAT 2619-3	CRYLCOAT 2617-3					
	CRYLCOAT 2684-4	CRYLCOAT 2618-3					
	CRYLCOAT 2695-0	CRYLCOAT 2630-2					
		CRYLCOAT 2637-4					
		CRYLCOAT 2689-0					
		CRYLCOAT 2698-3					
		CRYLCOAT E 04158					
170 °C		CRYLCOAT 2682-1					CRYLCOAT 4433-4
		CRYLCOAT 2488-2					
160 °C		CRYLCOAT E 04262	CRYLCOAT E 04155				

New Generation	Matte Dry Blend	Matte One Shot	Low bake
E 04158	2620-2	E 04187	E 04262
	2691-2	E 04211	E 04155
	2670-3	E 04235	
	2671-3	E 04238	
	4420-0	E 04245	
	4641-0	E 04229	
	E 37250	E 04193	
		E 04251	

# 11 Typical Properties for Primid Resins

CRYLCOAT	Ratio	AV	Viscosity	Tg (°C)	Cure T	TRIBO	OB	GOS	NB	Description
<b>STANDARD DURABLE RESINS FOR HIGH-MEDIUM GLOSS COATINGS</b>										
2488-2	95/5	34	6000	64	170		●			Resin suitable for low temperature cure formulations.
2617-3	95/5	33	3500	62	180	●	●		●	General purpose resin with very good performance.
2618-3	95/5	33	3500	61	180	●	●	●		Tribo active resin with excellent weathering resistance and suitable for use in gas ovens.
2619-3	96.5/3.5	23	5600	62	180	●	●	●		For low Primid demand formulation (96.5/3.5), tribo active resin.
2630-2	95/5	33	3500	62	180		●	●	●	Resin with excellent flow and degassing properties. Gas oven stabilised and non tribo version of CRYLCOAT 2617-3.
2682-1	95/5	34	6500	64	170	●				Resin suitable for low temperature cure formulations.
2689-0	95/5	34	4000	63	180			●		General purpose resin.
2695-0	96/4	25	5500	59	180			●		General purpose resin for low Primid demand formulations (96/4).
2698-3	95/5	33	3500	56	180	●	●			Excellent flow out and degassing properties, tribo active.
E 04155	93/7	50	6000	60	160	●	●	●		Low bake Primid resin.
E 04158	95/5	30	5000	65	180					Resin with very good processing and dispersing properties, less sagging, low hardener demand for (95/5) formulations.
E 04262	95/5	31	4000	58	160		●	●	●	Fast cure, low bake Primid resin with good flow out.
<b>RESINS FOR CLEARCOATS (Including superdurable type)</b>										
2637-4	95/5	33	3100	58	180		●	●		Resin with excellent flow, transparency and yellowing resistance when used with Primid QM1260.
2684-4	96/4	23	7700	58	180			●		Resin for low Primid demand formulations.
4433-4	95/5	30	5500(175°C)	53	170		●	●	●	Superdurable resin with excellent flow and flexibility.
<b>POLYESTER RESINS FOR PRIMID BASED FORMULATIONS</b>										
2620-2	92/8	50	4200	58	200		●			For matte dry blend systems (Gloss 35%) in combination with CRYLCOAT 2691-2.
2670-3	97/3	22	7500	61	190	●	●	●		For (co-grindable) matte dry blend systems in combination with high-demand Primid systems. The resin has an optimised weathering resistance.
2671-3	93/7	50	6000	60	190	●	●	●		For matte dry blend formulations (Gloss 35%) with CRYLCOAT 2670-3. The resin has an optimised weathering resistance.
2691-2	97/3	22	7600	62	200		●			For matte dry blend systems.
E 37250	90/10	70	6000(175°C)	53	190	●	●	●		For matte dry blend systems (Gloss 20-25%) in combination with CRYLCOAT 2670-3. The resin has an optimised weathering resistance.
<b>RESIN COMBINATIONS FOR MATTE DRY BLEND POWDER COATINGS</b>										
<i>Resin system for General Purpose applications</i>						Gloss 30-35%	CRYLCOAT 2691-2/CRYLCOAT 2620-2 (50/50)			
<i>Resin system for Architectural applications</i>						Gloss 30-35%	CRYLCOAT 2670-3 / CRYLCOAT 2671-3 (50/50)			
<i>Resin system for Architectural applications</i>						Gloss 20-25%	CRYLCOAT 2670-3 / CRYLCOAT E 37250 (50/50) (CRYLCOAT E 37250 is a resin in development)			
<i>Resin system for Architectural applications</i>						Gloss 30-35%	CRYLCOAT 4641-0 / CRYLCOAT 4420-0 (50/50)			
<i>Resin system for Architectural applications</i>						Gloss 20-25%	CRYLCOAT 4641-0 / CRYLCOAT E 37179 (50/50)			

# Typical Properties for Primid Resins

(continued)

CRYLCOAT	Ratio	AV	Viscosity	Tg (°C)	Cure T	TRIBO	OB	GOS	NB	Description
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### SUPERDURABLE RESINS

4420-0	92/8	50	5500	64	200					● Fast component for matte dry blend systems in combination with CRYLCOAT 4641-0.
4641-0	97/3	22	4300	60	200					● Slow component for matte dry blend systems in combination with CRYLCOAT 4420-0.
4642-3	95/5	33	2100	62	200	●	●			● Superdurable resin withstanding 5 years Florida exposure.
4659-0	95/5	34	3900	59	190					● Superdurable resin with some flexibility. It can be used in Primid and TGIC formulations.
4626-0	92/8	50	4300(175°C)	64	190					● Resin suitable for high Tg coatings.
E 36988	95/5	30	5500(175°C)	55	190					● Superdurable resin with good flexibility and excellent flow. Suitable for ACE applications.
E 37179	90/10	70	5000(175°C)	63	200					● Resin for matte dry blend superdurable systems in combination with CRYLCOAT 4641-0.

### STANDARD DURABLE RESINS FOR LOW GLOSS COATINGS IN ONE SHOT MATTE FORMULATIONS

E 04187	-	90	3500	58	200		●			● Fast reacting component in dull matte One Shot Matte formulations.
E 04211	-	25	5500	58	200		●			● Slow reacting component in dull matte One Shot Matte formulations.
E 04235	-	85	3000	57	200		●			● Fast reacting component in medium gloss One Shot Matte formulations.
E 04238	-	33	5500	62	200		●			● Slow reacting component in medium gloss One Shot Matte formulations.

### RESIN COMBINATIONS FOR ONE SHOT MATTE POWDER COATINGS

<i>Resin system for General Purpose applications</i>	<b>Gloss &lt; 10%</b>	CRYLCOAT E 04187/CRYLCOAT E 04211 (50/50)
<i>Resin system for General Purpose applications</i>	<b>Gloss 30-35%</b>	CRYLCOAT E 04235/CRYLCOAT E 04238 (50/50)

### SUPERDURABLE RESINS FOR LOW GLOSS COATINGS IN ONE SHOT MATTE FORMULATIONS

E 04193	-	90	3000	58	200					● Fast reacting component in dull matte One Shot Matte formulations.
E 04229	-	30	3500	57	200					● Slow reacting component in medium gloss One Shot Matte formulations.
E 04245	-	90	2000	55	200					● Fast reacting component in medium gloss One Shot Matte formulations.
E 04251	-	21	3900	59	200					● Slow reacting component in dull matte One Shot Matte formulations.

### RESIN COMBINATIONS FOR ONE SHOT MATTE POWDER COATINGS

<i>Resin system for Architectural applications</i>	<b>Gloss &lt; 10%</b>	CRYLCOAT E 04193/CRYLCOAT E 04251 (50/50)
<i>Resin system for Architectural applications</i>	<b>Gloss 30-35%</b>	CRYLCOAT E 04245/CRYLCOAT E 04229 (50/50)

# 13 Polyester Resins for TGIC Powder Coatings

	93/7 AV ~ 33	94/6 AV ~ 30	95/5 AV ~ 25	90/10 AV ~ 50	Superdurable
200 °C	CRYLCOAT 2401-2	CRYLCOAT E 04158	CRYLCOAT E 04132	CRYLCOAT 2431-0	CRYLCOAT 4420-0
	CRYLCOAT 2430-0		CRYLCOAT 2691-2	CRYLCOAT 2490-2	CRYLCOAT 4430-0
	CRYLCOAT 2441-2		CRYLCOAT 2496-2		CRYLCOAT 4432-4
	CRYLCOAT 2441-3		CRYLCOAT E 04219		CRYLCOAT 4488-0
190 °C	CRYLCOAT 2425-0				
	CRYLCOAT 2440-2				
	CRYLCOAT 2498-0				
180 °C	CRYLCOAT 2421-5				
	CRYLCOAT 2433-2				
	CRYLCOAT 2450-2				
	CRYLCOAT 2471-4				
	CRYLCOAT 2472-4				
170 °C	CRYLCOAT 2473-4				
160 °C	CRYLCOAT 2409-0				
	CRYLCOAT 2464-4				
	CRYLCOAT 2494-6				
	CRYLCOAT E 04299				

New Generation	Matte Dry Blend	Low Bake
E 04158	2431-0	2409-0
	2490-2	2464-4
	2691-2	2494-6
	4420-0	E 04299
	4430-0	
	E 04132	

CRYLCOAT	Ratio	AV	Viscosity	Tg (°C)	Cure T	TRIBO	OB	GOS	NB	Description
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### STANDARD DURABLE RESINS FOR HIGH AND MEDIUM GLOSS COATINGS

2401-2	93/7	33	3500	60	200		●			Resin for coatings with outstanding flow.
2409-0	93/7	33	3900	58	160			●		Low bake formulations with excellent performance properties.
2421-5	93/7	33	5200	63	180		●			Resin developed for use in coil or PCM.
2425-0	93/7	34	5500	71	190					High Tg resin with good balance of properties.
2430-0	93/7	30	9800	69	200					High Tg resin.
2433-2	93/7	33	3500	60	180 (5')		●			Suitable for fast cure formulation.
2440-2	93/7	33	5000	67	190		●			Slightly accelerated version of CRYLCOAT 2441-2.
2441-2	93/7	33	5000	67	200		●			General purpose resin with high Tg and excellent balance of properties.
2441-3	93/7	33	5000	67	200	●	●			General purpose resin with high Tg and excellent balance of properties.
2450-2	93/7	33	5000	67	180		●			General purpose resin with high Tg. Accelerated version of CRYLCOAT 2441-2.
2491-2	96/4	22	7600	62	200					Low hardener demand in TGIC and Primid (96.5/3.5), slow component in MDB systems.
2494-6	93/7	33	2800	58	160					For fast or low bake formulations with excellent performance properties.
2496-2	95/5	25	7000	63	200		●			High Tg resin with improved ageing.
2498-0	93/7	34	8000	68	190					High Tg resin with improved ageing.
E 04158	94/6	30	5000	65	200					Dual chemistry suitable for TGIC and Primid, lower formulation costs, excellent boiling water resistance.
E 04219	95/5	22	7250	62	200		●	●		Improved version of CRYLCOAT 2496-2 in gas-oven and overbake resistance.
E 04299	93/7	30	5000	64	160		●	●	●	Low bake formulations with improved flow out, storage stability and less blooming.

### RESINS FOR CLEARCOATS (including superdurable types)

2464-4	93/7	33	3300	60	160			●		Resin for low temperature cure formulation with excellent flow.
2471-4	93/7	33	3500	58	180			●		Resin with outstanding flow.
2472-4	93/7	33	4500	63	180			●		High Tg version of CRYLCOAT 2471-4, with improved storage stability.
2473-4	93/7	33	3200	63	170			●	●	Non blooming and accelerated version of CRYLCOAT 2472-4.
4432-4	93/7	33	7900 (175°C)	62	200			●	●	Superdurable resin with an excellent flow and transparency.

### STANDARD DURABLE RESINS FOR LOW GLOSS COATINGS

2431-0	90/10	50	4500	68	200					For matte dry blend system in combination with CRYLCOAT E 04132.
2490-2	90/10	47	4800	70	200		●			For matt dry blend systems.
E 04132	96/4	24	9500	60	200					For matte dry blend system in combination with CRYLCOAT 2431-0.

### SUPERDURABLE RESINS

4420-0	90/10	50	5500	64	200				●	Fast component for matte dry blend systems in combination with CRYLCOAT 4430-0.
4430-0	93/7	33	2000	62	200				●	Resin with excellent flow. It can be used with CRYLCOAT 4420-0 for matte dry blend systems.
4488-0	93/7	33	5500	64	200				●	Resin with excellent weathering performance, withstanding 10 years Florida exposure.

## Polyester Resins for PT910 Powder Coatings

	93/7 AV ~ 26	92/8 AV ~ 33	91/9-90/10 AV ~ 40	Superdurable
200 °C	CRYLCOAT 2500-2			CRYLCOAT 4540-0
	CRYLCOAT 2502-2			
	CRYLCOAT 2592-0			
	CRYLCOAT 2592-1			
180 °C	CRYLCOAT 2503-2	CRYLCOAT 2506-1	CRYLCOAT 2536-0	
	CRYLCOAT 2516-4	CRYLCOAT 2505-4		
170 °C		CRYLCOAT 2578-0		

CRYLCOAT	AV	Viscosity	Tg (°C)	Cure T	TRIBO	OB	GOS	NB	Description
<b>STANDARD DURABLE RESINS FOR HIGH AND MEDIUM GLOSS COATINGS</b>									
2500-2	33	9000	70	200(15')			●		Resin with outstanding flow. It is recommended for use in clearcoats.
2502-2	20	10000	70	200(15')					Resin recommended for excellent adhesion on difficult substrates.
2503-2	24	8500	68	180		●		●	General purpose for 93/7 stoichiometry with PT-910.
2506-1	33	5500	67	180(15')	●		●		General purpose for 91/9 stoichiometry with PT-910.
2578-0	33	9000	71	170			●		Suitable for low temperature cure formulations.
2592-1	26	9000	69	200	●		●		Tribo version of CRYLCOAT 2592-0.
2592-0	26	9000	70	200			●	●	Non blooming resin.
<b>STANDARD DURABLE RESINS FOR LOW GLOSS COATINGS</b>									
2500-2	33	9200	70	200(15')		●			Fast component for matt dry blend systems in combination with CRYLCOAT 2502-2.
2502-2	20	12000	70	200(15')		●			Slow component for matt dry blend systems in combination with CRYLCOAT 2500-2.
2536-0	40	7000	68	180					Fast component for matt dry blend systems in combination with CRYLCOAT 2502-2.
<b>RESINS FOR CLEARCOATS</b>									
2505-4	33	4500	65	180(15')			●		Resin with excellent flow.
2516-4	26	8500	66	180(15')			●		Resin with improved storage stability.
<b>SUPERDURABLE RESIN</b>									
4540-0	25	9700	67	200				●	Superdurable resin with excellent properties.

# Polyester Resins for Urethane Powder Coatings

	OHV 30	OHV 40	OHV 50	OHV 80-100	OHV 240-300	Superdurable	Utility Resins
200 °C	CRYLCOAT 2890-0	CRYLCOAT 2872-0	CRYLCOAT 2839-0		CRYLCOAT E 04076		CRYLCOAT 9292-0
			CRYLCOAT 2883-0		CRYLCOAT E 04176		CRYLCOAT 9246-0
			CRYLCOAT E 04060				
190 °C				CRYLCOAT 2818-0			
	CRYLCOAT 2868-0						
180 °C						CRYLCOAT 4890-0	

### Matte One Shot

E 04060

E 04076

E 04176

CRYLCOAT	IOH, mgKOH/g	AV max, mgKOH/g	Viscosity	Tg (°C)	Cure T	NB	Description
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## STANDARD DURABLE RESINS

2818-0	100	3	3300	58	190	●	Good solvent resistance. When used with BECKOPOX™ EH 694 resin, the coatings exhibit excellent thermal resistance and a high Tg.
2839-0	50	8	5500	57	200		Good mechanical, chemical and weathering resistance, excellent appearance in clear coats.
2868-0	30	5	7000	60	190		High Tg resin with excellent reactivity and flow out.
2872-0	40	13	4000	55	200		General purpose resin. It can be used in clearcoats.
2890-0	30	10	7200	60	200		For low demand isocyanate formulations.
E 04060	50	1	3500	52	200		One shot matte PU formulations with CRYLCOAT E 04076.
E04076	240	5	4000	60	200		One shot matte PU formulations with CRYLCOAT E 04060.
E04176	280	5	4500	58	200		Excellent hardness and stain resistance, suitable for anti-graffiti formulations.

## SUPERDURABLE RESINS

4890-0	30	-	5000	58	180	●	Superdurable resin with excellent flow.
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ADDITOL	NCO, % w/w	Viscosity	Tg (°C)	Cure T	NB	Description
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## CROSSLINKERS

P 965	16-17	-	51	180		Crosslinker for OH-polyester resins based on an aromatic structure and recommended for interior applications.
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## Resins and Additives for UV-curable Powder Coatings

Metal	MDF / Wood	Plastics	Toner	Additives & Co-Resins
<i>UVECOAT 2100</i>	<i>UVECOAT 3002</i>	<i>UVECOAT 3003</i>	<i>UVECOAT T 37621</i>	<i>UVECOAT 9539</i>
	<i>UVECOAT 3005</i>			<i>UVECOAT 9010</i>

UVECOAT	Viscosity	Tg (°C)	Description
<b>RESINS FOR METAL APPLICATIONS</b>			
2100	5500	57	High Tg resin for metal application with good adhesion up to 70µm.
<b>RESINS FOR WOOD APPLICATIONS</b>			
3002	4500(175°C)	49	For texture finishes for MDF application and clearcoats on hardwood. Very good chemical and scratch resistances. For indoor uses with improved yellowing resistance.
3005	4000	48	For texture finishes for MDF application. Very good chemical and scratch resistance.
<b>RESINS FOR RESILIENT FLOORING APPLICATIONS</b>			
3003	3500(175°C)	49	For resilient flooring application. Excellent scratch and chemical resistance.
<b>ADDITIVES AND CO-RESINS FOR UV-POWDER APPLICATIONS</b>			
9010	350(100°C)	85 (Tm)	Semi-crystalline resin to improve flow and flexibility.
9539	4000	44	Unsaturated Polyester resin providing excellent adhesion as sole binder or combination partner for other UVECOAT resins at metal application.
<b>TONER</b>			
T 37621	5200(200°C)	51	Unsaturated resin developed for a variety of specialty applications, e.g. toners, where a high reactivity combined with a high glass transition temperature is required.



## Masterbatches and Additives

Catalysts	Flow Promoters	Flow Aids	Tribo Additives
<i>ADDITOL P 964</i>	<i>ADDITOL P 896</i>	<i>MODAFLOW POWDER III</i>	<i>ADDITOL P 950</i>
	<i>ADDITOL P 824</i>	<i>MODAFLOW POWDER 2000</i>	
	<i>ADDITOL P 820</i>	<i>MODAFLOW POWDER 6000</i>	
	<i>ADDITOL E 04149</i>		

## Acrylic Resins and Additives

Polyanhydride Hardener	Matting Hardener
<i>ADDITOL P 791</i>	<i>SYNTHACRYL 700</i>



# Typical Properties for Masterbatches and Additives

Products	AV/OHV, mgKOH/g	Viscosity	Tg (°C)	Description
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## CATALYST MASTERBATCHES

<i>ADDITOL P 920</i>	AV 42	8500	-	Catalyst masterbatch for wrinkle finish with CRYLCOAT 2920-0.
<i>ADDITOL P 964</i>	AV 33	3200	-	A 5% active catalyst masterbatch for carboxylic acid/epoxy reaction.cyanate formulations.

## FLOW MASTERBATCHES

<i>ADDITOL E 04149</i>	OHV 45	3500	51	Flow promoter masterbatch with 10% active substance. 7-8% on total formulation weight. No haze. Suitable for clearcoats.
<i>ADDITOL P 820</i>	AV 34	3000	60	Flow promoter masterbatch with 10% active substance. 6-7% on total formulation weight for pigmented powders. High Tg master batch.
<i>ADDITOL P 824</i>	OHV 45	1200	49	Flow promoter masterbatch with 15% active substance. 3-5% on total formulation weight for pigmented powders. Excellent gloss and flow.
<i>ADDITOL P 896</i>	OHV 45	1800	57	Flow promoter masterbatch with 15% active substance. 3-5% on total formulation weight for pigmented powders.

## TRIBO MASTERBATCHES

<i>ADDITOL P 950</i>	OHV 30	7500(175°C)	-	Tribo masterbatch with 5% active substance.
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Products	Appearance	Activity [%]	Density [g/cm³]	Description
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## FLOW MODIFIERS

<i>MODAFLOW POWDER III</i>	Free flowing powder	65	0.58-0.64	Improves leveling and flow out, reduces surface defects, improves substrate wetting and initial adhesion.
<i>MODAFLOW POWDER 2000</i>	Free flowing powder	65	0.58-0.64	Improves leveling and flow out, reduces surface defects, controls orange peel and aid pigment dispersion.
<i>MODAFLOW POWDER 6000</i>	Free flowing powder	65	0.58-0.64	Improves leveling and flow out, reduces surface defects and broadens cross compatibility between different powder coatings.

Products	EEW	Viscosity	Tg (°C)	Description
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## GMA ACRYLIC RESINS FOR LOW GLOSS FORMULATIONS

<i>SYNTHACRYL 700</i>	750	39000	80	Glycidyl poly acrylic resin designed for dead matt coatings with CRYLCOAT 2441-2
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Products	IAC, mgKOH/g	Tm (°C)	Description
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## CROSSLINKER

<i>ADDITOL P 791</i>	310	90	Aliphatic polyanhydride crosslinker for use with GMA-acrylic resins. The resin is not available at large quantities.
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Products	T, °C	Tg (°C)	IAC, mgKOH/g	Viscosity mPa.s	Description
<b>POLYESTER RESIN FOR WRINKLE FINISH</b>					
<i>CRYLCOAT 2920-0</i>	200	67	33	12700	For wrinkle finishes in combination with ADDITOL P 920 and POWDERLINK 1174.
<i>ADDITOL P 920</i>	-	-	42	8500	Catalyst masterbatch for wrinkle finish with CRYLCOAT 2920-0.

Products	T, °C	Tg (°C)	IOH, mgKOH/g	Viscosity mPa.s	Description
<b>UTILITY POYESTER RESINS</b>					
<i>CRYLCOAT 9246-0</i>	-	69	35	10000	Resin suitable for cleaning material for extruders.
<i>CRYLCOAT 9292-0</i>	-	58	40	4500	Organic filler for epoxy systems.



Primid	TGIC	PT 910	Urethane
CRYLCOAT 4420-0	CRYLCOAT 4420-0	CRYLCOAT 4540-0	CRYLCOAT 4890-0
CRYLCOAT 4641-0	CRYLCOAT 4430-0		
CRYLCOAT 4642-3	CRYLCOAT 4432-4		
CRYLCOAT 4626-0	CRYLCOAT 4488-0		
CRYLCOAT 4659-0			
CRYLCOAT E 36988			
CRYLCOAT 4433-4			



# Gloss Control Systems for Powder Coatings

## Dry-Blend Systems

Gloss	Primid Standard	Primid Superdurable	TGIC Standard	TGIC Superdurable
Min 30 %	CRYLCOAT 2670-3 AV 21	CRYLCOAT 4641-0 AV 20	CRYLCOAT 2490-2 AV 47	CRYLCOAT 4420-0 AV 51
	CRYLCOAT 2671-3 AV 48	CRYLCOAT 4420-0 AV 51	CRYLCOAT 2691-2 AV 25	CRYLCOAT 4430-0 AV 35
	CRYLCOAT 2691-2 AV 21			
	CRYLCOAT 2620-2 AV 50			
Min 20 %	CRYLCOAT 2670-3 AV 21	CRYLCOAT 4641-0 AV 20	CRYLCOAT 2431-0 AV 50	
	CRYLCOAT E37250 AV 70	CRYLCOAT E37179 AV 70	CRYLCOAT E04132 AV 25	
	CRYLCOAT 2691-2 AV 21		CRYLCOAT 2691-2 AV 25	
	CRYLCOAT 2621-2 AV 72			

## One-Shot Systems

Gloss	Urethane	Acrylic	Wrinkle
Min 20 %	CRYLCOAT E04060 OHV 50		
	CRYLCOAT E04076 OHV 240		
< 12 %	CRYLCOAT E04060 OHV 50	SYNTHACRYL 700	CRYLCOAT 2920-0
	CRYLCOAT 2814-0 OHV 300	CRYLCOAT 2441-2	ADDITOL P920



## Toxicity

**CRYLCOAT** polyester products are solid, non-flammable resins with minimal toxicity. **MODAFLOW** products have been subjected to acute toxicity and mutagenicity studies. Details on specific coverage of individual studies are available upon request.

Resin containers may contain polymer dust that could be irritating. Prevent dusty conditions and avoid breathing dust. Also, avoid contact with eyes and prolonged or repeated contact with skin. Use only with adequate ventilation. Equipment should be grounded to prevent electrical sparking. For more information on each product, please consult the current material safety data sheet (MSDS) which will be provided by Cytec. Take into account the potential risk resulting in formulation with other materials such as catalysts, hardeners, pigments, and fillers.

## Storage

**CRYLCOAT, UVECOAT, SYNTHACRYL,** and **ADDITOL** resins should be stored in a dry location at room temperature. Keep away from heat sources and direct sunlight. Do not stack more than two pallets high.

**MODAFLOW** powder products should not be stored in environments of high heat or humidity. The ideal storage temperature is between 4 °C (40 °F) and 38 °C (100 °F). Keep away from sparks and flame.

## Shelf Stability

**CRYLCOAT, UVECOAT, SYNTHACRYL,** and **ADDITOL** resins have a minimum shelf life of one year when stored in a dry location at room temperature. The shelf life of **MODAFLOW** powder products is typically at least four years, when stored in the recommended environment.

## Packaging Information

**CRYLCOAT, UVECOAT, SYNTHACRYL,** and **ADDITOL** resins are typically provided in 25 kg (55.1 lb) polyethylene bags. Supersack containers of 500 kg or 1000 kg are available upon request. **MODAFLOW** powder products are typically provided in 68 kg (150 lbs) fiber drums. Upon special request, 454 kg (1000 lbs) polypropylene bulk bags are available.



Key Word	Description
Acid Value (AV), mgKOH/g	The amount of KOH, reported in mg, necessary to neutralize the acid content of one gram of polyester.
Blooming	A hazy appearance on the surface of the coating brought on by migration of low molecular weight material during low temperature cure or extended exposure to heat.
Non blooming (NB)	Resin that shows no blooming effect.
Curing Temperature (T, °C)	The recommended metal or object temperature required to fully cure the powder coating system in 10 minutes.
Epoxy Equivalent Weight (EEW), g/eq	The weight of resin, in grams, which contains one gram-equivalent of epoxy.
Florida Exposure	Standard outdoor exposure test to approximate the natural weathering performance of a coating under severe conditions. The test panels are exposed in south Florida.
Gas oven resistance (GOS)	Resin that can be used in gas oven without discoloration effect.
Glass Transition Temperature (T <sub>g</sub> )	The characteristic temperature in °C of an amorphous polymer corresponding to the change from a solid to rubbery state as measured by DSC.
Gloss	Degree to which a surface reflects light.
Hydroxyl Value (OHV), mgKOH/g	The amount of KOH, reported in mg, equivalent to the hydroxyl content of one gram of polyester.
Isocyanate content (NCO), % w/w	Isocyanate content as expressed by g of NCO by 100 g of resin.
Matte	A coating appearance that reflects a minimal amount of light.
Melting Temperature (T <sub>m</sub> )	The characteristic temperature in °C at which a solid material becomes a liquid.
Over bake resistance (OB)	Resin that shows an excellent resistance to over baking conditions in convection oven.
Polyester/Hardener Ratio	Weight ratio between the polyester resin and the hardener recommended for optimal properties.
Storage Stability	Ability of powder coatings to maintain uniform powder flow properties after being subjected to a specified storage condition.
Superdurable	A polyester resin that exhibits extended outdoor weathering characteristics, typically maintaining > 50 % gloss after 3 years (EU) and 5 years (US)
Tribo resin	Resin that can be used in tribo application without additives.
Viscosity, m Pa.s	The melt viscosity of the polymer, measured with a Brookfield <sup>1</sup> viscometer in mPa.s at a specified temperature normally at 200°C and 175°C.
Wrinkle	A unique, special effect finish characterized by closely associated ridge-like structures

<sup>1</sup> Trademark of Brookfield Engineering Laboratories

Old Name	New Name	Old Name	New Name	Old Name	New Name
	ADDITOL E 04149		CRYLCOAT E 04193	CRYLCOAT 7207	CRYLCOAT 1506-6
ADDITOL VXL 1381	ADDITOL P 791		CRYLCOAT E 04211	CRYLCOAT 7321	CRYLCOAT 2421-5
ADDITOL VXL 9820	ADDITOL P 820		CRYLCOAT E 04219	CRYLCOAT 7332	CRYLCOAT 2471-4
ADDITOL VXL 9824	ADDITOL P 824		CRYLCOAT E 04229	CRYLCOAT 7364	CRYLCOAT 2464-4
ADDITOL XL 496	ADDITOL P 896		CRYLCOAT E 04235	CRYLCOAT 7372	CRYLCOAT 2472-4
ALFTALAT 03652	CRYLCOAT 2536-0		CRYLCOAT E 04238	CRYLCOAT 7392	CRYLCOAT 2473-4
ALFTALAT 03798	CRYLCOAT 2498-0		CRYLCOAT E 04245	CRYLCOAT 7401	CRYLCOAT 1701-0
ALFTALAT 03822	CRYLCOAT 2592-1		CRYLCOAT E 04251	CRYLCOAT 7402	CRYLCOAT 1702-0
ALFTALAT 03873	CRYLCOAT 1573-0		CRYLCOAT E 04262	CRYLCOAT 7403	CRYLCOAT 1703-1
ALFTALAT 03882	CRYLCOAT 2682-1		CRYLCOAT E 04299	CRYLCOAT 7617	CRYLCOAT 2617-3
ALFTALAT 03884	CRYLCOAT 2684-4		CRYLCOAT E 36988	CRYLCOAT 7618	CRYLCOAT 2618-3
ALFTALAT 03946	CRYLCOAT 9246-0		CRYLCOAT E 37250	CRYLCOAT 7619	CRYLCOAT 2619-3
ALFTALAT 03996	CRYLCOAT 2496-2	CRYLCOAT E 37498	CRYLCOAT 2698-3	CRYLCOAT 7620	CRYLCOAT 2620-2
ALFTALAT 04016	CRYLCOAT 1627-0		CRYLCOAT E 38051	CRYLCOAT 7630	CRYLCOAT 2630-2
ALFTALAT 04068	CRYLCOAT 2868-0	CRYLCOAT 120	ADDITOL P 920	CRYLCOAT 7637	CRYLCOAT 2637-4
ALFTALAT 04116	CRYLCOAT E 04116	CRYLCOAT 150	ADDITOL P 950	CRYLCOAT 7641	CRYLCOAT 4641-0
ALFTALAT 04181	CRYLCOAT 1781-0	CRYLCOAT 164	ADDITOL P 964	CRYLCOAT 7642	CRYLCOAT 4642-3
ALFTALAT AN 720	CRYLCOAT 1620-0	CRYLCOAT 2026	CRYLCOAT 4626-0	CRYLCOAT 7670	CRYLCOAT 2670-3
ALFTALAT AN 722	CRYLCOAT 1622-0	CRYLCOAT 2696	CRYLCOAT 1696-0	CRYLCOAT 7671	CRYLCOAT 2671-3
ALFTALAT AN 725	CRYLCOAT 2425-0	CRYLCOAT 283	CRYLCOAT 2883-0	CRYLCOAT 800	CRYLCOAT 2500-2
ALFTALAT AN 739	CRYLCOAT 2839-0	CRYLCOAT 290	CRYLCOAT 2890-0	CRYLCOAT 802	CRYLCOAT 2502-2
ALFTALAT AN 745	CRYLCOAT 2845-0	CRYLCOAT 2988	CRYLCOAT 4488-0	CRYLCOAT 803	CRYLCOAT 2503-2
ALFTALAT AN 770	CRYLCOAT 1770-0	CRYLCOAT 314	CRYLCOAT 1514-2	CRYLCOAT 8030	CRYLCOAT 2441-3
ALFTALAT AN 792	CRYLCOAT 9292-0	CRYLCOAT 316	CRYLCOAT 1716-0	CRYLCOAT 805	CRYLCOAT 2505-4
ALFTALAT AN 989	CRYLCOAT 2689-0	CRYLCOAT 3232	CRYLCOAT 2433-2	CRYLCOAT 806	CRYLCOAT 2506-1
ALFTALAT AN 995	CRYLCOAT 2695-0	CRYLCOAT 3301	CRYLCOAT 2401-2	CRYLCOAT 820	CRYLCOAT 2920-0
ALFTALAT VAN 9831	CRYLCOAT 1631-0	CRYLCOAT 340	CRYLCOAT 1540-0	CRYLCOAT 840	CRYLCOAT 4540-0
ALFTALAT VAN 9882	CRYLCOAT 2488-2	CRYLCOAT 341	CRYLCOAT 1541-4		UVECOAT 2100
ALFTALAT VAN 9918	CRYLCOAT 2818-0	CRYLCOAT 350	CRYLCOAT 1650-2		UVECOAT 3002
ALFTALAT VAN 9959	CRYLCOAT 4659-0	CRYLCOAT 360	CRYLCOAT 1660-0		UVECOAT 3003
ALFTALAT VAN 9952	CRYLCOAT 2592-0	CRYLCOAT 380	CRYLCOAT 1680-6		UVECOAT 9010
ALFTALAT VAN 9978	CRYLCOAT 2578-0	CRYLCOAT 390	CRYLCOAT 1690-0	UVECOAT E 37539	UVECOAT 9539
CRYLCOAT D 7309	CRYLCOAT 2409-0	CRYLCOAT 391	CRYLCOAT 1691-0		UVECOAT T 37621
CRYLCOAT D 7394	CRYLCOAT 2494-6	CRYLCOAT 430	CRYLCOAT 2430-0		UVECOAT 3005
CRYLCOAT D 8016	CRYLCOAT 2516-4	CRYLCOAT 440	CRYLCOAT 2440-2		
	CRYLCOAT E 04048	CRYLCOAT 441	CRYLCOAT 2441-2		
	CRYLCOAT E 04076	CRYLCOAT 450	CRYLCOAT 2450-2		
CRYLCOAT E 04131	CRYLCOAT 2431-0	CRYLCOAT 490	CRYLCOAT 2490-2		
	CRYLCOAT E 04132	CRYLCOAT 491	CRYLCOAT 2691-2		
	CRYLCOAT E 04140	CRYLCOAT 620	CRYLCOAT 4420-0		
	CRYLCOAT E 04143	CRYLCOAT 630	CRYLCOAT 4430-0		
	CRYLCOAT E 04148	CRYLCOAT 632	CRYLCOAT 4432-4		
	CRYLCOAT E 04155	CRYLCOAT 633	CRYLCOAT 4433-4		
	CRYLCOAT E 04158	CRYLCOAT E 04219	CRYLCOAT 1683-0		
	CRYLCOAT E 04176	CRYLCOAT 690	CRYLCOAT 4890-0		
	CRYLCOAT E 04187	CRYLCOAT 700	SYNTHACRYL 700		

New Name	Old Name	New Name	Old Name	New Name	Old Name
ADDITOL E 04149		CRYLCOAT 2490-2	CRYLCOAT 490	CRYLCOAT 9246-0	ALFTALAT 03946
ADDITOL P 791	ADDITOL VXL 1381	CRYLCOAT 2494-6	CRYLCOAT D 7394	CRYLCOAT 9292-0	ALFTALAT AN 792
ADDITOL P 820	ADDITOL VXL 9820	CRYLCOAT 2496-2	ALFTALAT 03996	CRYLCOAT E 04048	
ADDITOL P 824	ADDITOL VXL 9824	CRYLCOAT 2498-0	ALFTALAT 03798	CRYLCOAT E 04076	
ADDITOL P 896	ADDITOL XL 496	CRYLCOAT 2500-2	CRYLCOAT 800	CRYLCOAT E 04116	ALFTALAT 04116
ADDITOL P 920	CRYLCOAT 120	CRYLCOAT 2502-2	CRYLCOAT 802	CRYLCOAT E 04132	
ADDITOL P 950	CRYLCOAT 150	CRYLCOAT 2503-2	CRYLCOAT 803	CRYLCOAT E 04140	
ADDITOL P 964	CRYLCOAT 164	CRYLCOAT 2505-4	CRYLCOAT 805	CRYLCOAT E 04143	
CRYLCOAT 1506-6	CRYLCOAT 7207	CRYLCOAT 2506-1	CRYLCOAT 806	CRYLCOAT E 04148	
CRYLCOAT 1514-2	CRYLCOAT 314	CRYLCOAT 2516-4	CRYLCOAT D 8016	CRYLCOAT E 04155	
CRYLCOAT 1540-0	CRYLCOAT 340	CRYLCOAT 2536-0	ALFTALAT 03652	CRYLCOAT E 04158	
CRYLCOAT 1541-4	CRYLCOAT 341	CRYLCOAT 2578-0	ALFTALAT VAN 9978	CRYLCOAT E 04176	
CRYLCOAT 1573-0	ALFTALAT 03873	CRYLCOAT 2592-0	ALFTALAT VAN 9952	CRYLCOAT E 04187	
CRYLCOAT 1620-0	ALFTALAT AN 720	CRYLCOAT 2592-1	ALFTALAT 03822	CRYLCOAT E 04193	
CRYLCOAT 1622-0	ALFTALAT AN 722	CRYLCOAT 2617-3	CRYLCOAT 7617	CRYLCOAT E 04211	
CRYLCOAT 1627-0	ALFTALAT 04016	CRYLCOAT 2618-3	CRYLCOAT 7618	CRYLCOAT E 04219	
CRYLCOAT 1631-0	ALFTALAT VAN 9831	CRYLCOAT 2619-3	CRYLCOAT 7619	CRYLCOAT E 04229	
CRYLCOAT 1650-2	CRYLCOAT 350	CRYLCOAT 2620-2	CRYLCOAT 7620	CRYLCOAT E 04235	
CRYLCOAT 1660-0	CRYLCOAT 360	CRYLCOAT 2630-2	CRYLCOAT 7630	CRYLCOAT E 04238	
CRYLCOAT 1680-6	CRYLCOAT 380	CRYLCOAT 2637-4	CRYLCOAT 7637	CRYLCOAT E 04245	
CRYLCOAT 1683-0	CRYLCOAT D 6483	CRYLCOAT 2670-3	CRYLCOAT 7670	CRYLCOAT E 04251	
CRYLCOAT 1690-0	CRYLCOAT 390	CRYLCOAT 2671-3	CRYLCOAT 7671	CRYLCOAT E 04262	
CRYLCOAT 1691-0	CRYLCOAT 391	CRYLCOAT 2682-1	ALFTALAT 03882	CRYLCOAT E 04299	
CRYLCOAT 1696-0	CRYLCOAT 2696	CRYLCOAT 2684-4	ALFTALAT 03884	CRYLCOAT E 36988	
CRYLCOAT 1701-0	CRYLCOAT 7401	CRYLCOAT 2689-0	ALFTALAT AN 989	CRYLCOAT E 37250	
CRYLCOAT 1702-0	CRYLCOAT 7402	CRYLCOAT 2691-2	CRYLCOAT 491	CRYLCOAT E 38051	
CRYLCOAT 1703-1	CRYLCOAT 7403	CRYLCOAT 2695-0	ALFTALAT AN 995	SYNTHACRYL 700	CRYLCOAT 700
CRYLCOAT 1716-0	CRYLCOAT 316	CRYLCOAT 2698-3	CRYLCOAT E 37498	UVECOAT 2100	
CRYLCOAT 1770-0	ALFTALAT AN 770	CRYLCOAT 2818-0	ALFTALAT VAN 9918	UVECOAT 3002	
CRYLCOAT 1781-0	ALFTALAT 04181	CRYLCOAT 2839-0	ALFTALAT AN 739	UVECOAT 3003	
CRYLCOAT 2401-2	CRYLCOAT 3301	CRYLCOAT 2845-0	ALFTALAT AN 745	UVECOAT 3005	VIAKTIN 03890
CRYLCOAT 2409-0	CRYLCOAT D 7309	CRYLCOAT 2868-0	ALFTALAT 04068	UVECOAT 9010	
CRYLCOAT 2421-5	CRYLCOAT 7321	CRYLCOAT 2883-0	CRYLCOAT 283	UVECOAT 9539	UVECOAT E 37539
CRYLCOAT 2425-0	ALFTALAT AN 725	CRYLCOAT 2890-0	CRYLCOAT 290	UVECOAT T 37621	
CRYLCOAT 2430-0	CRYLCOAT 430	CRYLCOAT 2920-0	CRYLCOAT 820		
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CRYLCOAT 2433-2	CRYLCOAT 3232	CRYLCOAT 4430-0	CRYLCOAT 630		
CRYLCOAT 2440-2	CRYLCOAT 440	CRYLCOAT 4432-4	CRYLCOAT 632		
CRYLCOAT 2441-2	CRYLCOAT 441	CRYLCOAT 4433-4	CRYLCOAT 633		
CRYLCOAT 2441-3	CRYLCOAT 8030	CRYLCOAT 4488-0	CRYLCOAT 2988		
CRYLCOAT 2450-2	CRYLCOAT 450	CRYLCOAT 4540-0	CRYLCOAT 840		
CRYLCOAT 2464-4	CRYLCOAT 7364	CRYLCOAT 4626-0	CRYLCOAT 2026		
CRYLCOAT 2471-4	CRYLCOAT 7332	CRYLCOAT 4641-0	CRYLCOAT 7641		
CRYLCOAT 2472-4	CRYLCOAT 7372	CRYLCOAT 4642-3	CRYLCOAT 7642		
CRYLCOAT 2473-4	CRYLCOAT 7392	CRYLCOAT 4659-0	ALFTALAT VAN 9959		
CRYLCOAT 2488-2	ALFTALAT VAN 9882	CRYLCOAT 4890-0	CRYLCOAT 690		

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