POWDER COATING RESINS

Europe, Middle East & Africa

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About allnex

allnex is a leading producer of industrial coating resins and additives for architectural, industrial, protective, automotive and special purpose coatings and inks. With manufacturing facilities and R&D centers located around the world, the allnex group offers access to a huge global network of innovation and provides responsive, local support to our customers, helping them to quickly bring advanced coating solutions to market. Formed in 2016 by the merger of two leading resin companies, we have recently further strengthened (y)our business by becoming part of major international player PTT Global Chemical.

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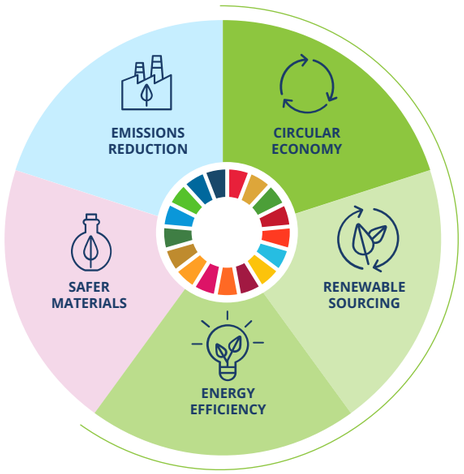
Sustainability

A fivefold focus for a new tomorrow – the pillars of our sustainability program.
These pillars form the basis of allnex's sustainability program, which covers all aspects from product development, raw material sourcing and manufacturing to supply chain management and customer service. The pillars stand for the circularity that is at the core of all our considerations, defining both how we plan and execute our activities.



Circular Economy
We diligently explore options to limit the consumption of resources, keep them in use as long as possible, and eventually recover and recycle them at the end of service life.

Renewable Sourcing
We aim at minimal use of finite resources and strive to reduce climate impacts by looking at renewable alternatives for raw materials and the energy we use.

Energy Efficiency
We design our product and manufacturing process in a way that enables maximum efficiency in energy utilization across the product lifecycle.

Safer Materials
We are committed to making the substitution of potentially harmful chemicals by safer options one of our guiding considerations.

Emissions Reduction
We work to reduce the emissions of volatile organic solvents across the product lifecycle to protect people and the environment.

Being ECOWISE™ is the best way to be part of the solution – and that's exactly what our initiative and ECOWISE™ branded products help everyone to do. They spring from our deep commitment to a more sustainable future. They are also living proof that, with our broad range of technologies and sustainable focus, we are the ideal partner for smoothly and successfully making the transition to the solutions a more ECOWISE™ future needs.

Product Index

Product	Description
Vehicle Binder Resins	
CRYLCOAT®	Polyester powder coating resins – Carboxyl (-COOH) resins for hybrid, TGIC, glycidylester and ß-HAA powder coatings – Hydroxyl (-OH) resins for polyurethane and glycoluril powder coatings
SETAPOLL™	Polyester powder coating resins – Carboxyl (-COOH) resins for hybrid and ß-HAA powder coatings
UVECOAT®	Unsaturated resins for UV curable powder coatings
Curing Hardeners (Powder Crosslinkers)	
ADDITOL®	Polyanhydride resin for epoxy functional (glycidyl) acrylics and urethane hardeners for hydroxyl functional binder resins (where available)
BECKOPOX™	Anhydride-like resin for epoxy or hydroxy functional binder resins
Powder Additives and Modifiers	
MODAFLOW®	Powder coating flow modifiers on silica carrier
ADDITOL®	Flow additives, catalysts and tribo masterbatches provided on resin carriers
SYNTHACRYL®	GMA-acrylic matting agent

Product Nomenclature

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

Cure Temperature and Time Definitions	
Slow	190 °C or greater for 10 min
Medium	170 - 180 °C for 10 min
Fast	160 °C for 10 min
Low bake	150 °C or lower for 10 - 30 min

Resin Selection Guide
● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ new HAA resins with improved moisture resistance (water-spot)
● CRYLCOAT® and SETAPOLL™ polyester resins systems for matte finishes
● CRYLCOAT® and SETAPOLL™ polyester resins for low temperature curing
● ADDITOL®*, MODAFLOW®* and SYNTHACRYL®* systems and additives
● UVECOAT®* unsaturated resins for UV-curable powder coatings

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 application. The color background used for each product in the charts helps to delineate special product features, as summarized in the table 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.

*ADDITOL® additives
*CRYLCOAT® polyester resins
*MODAFLOW® powder flow modifiers
*SETAPOLL™ polyester resins
*UVECOAT® UV-curable resins

Please find below a summary describing how the product names were derived, and what they stand for.

Digit 1	Digit 2	Digit 3 & 4	Digit 5
CRYLCOAT® System - 5 Digit System			
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 [1] 6 = Primid® [2] 8 = Urethane	Whenever possible equivalent to last two digits of former product name	- 0 = Standard (no additives) - 1 = Tribo - 2 = Overbake - 3 = Tribo & 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; Digit 3 & 4: 14 from 314 and Digit 5: 2 for Overbake

Masterbatch Type	Number
ADDITOL® System	
Flow Aid	P 800 - P 899
Tribo, Catalyst, Crosslinkers	P 900 - P 999

Type	Number
UVECOAT® System	
General Purpose Resins	1000 - 1999
Resins for Metal Substrates	2000 - 2999
Resins for Wood and Plastic	3000 - 3999
Special (i.e., crystalline)	9000 - 9999

Type	Number
SYNTHACRYL® System	
Acrylic - All	700 - 799

[1]Trademark of Huntsman Advanced Materials
[2]Trademark of EMS-Chemie

Polyester Resins for Hybrid Powder Coatings

	50/50 AV ~ 70	60/40 AV ~ 50 - 60		70/30 AV 30 - 35	
Polyester Resins for Hybrid Powder Coatings					
210 °C	● CRYLCOAT® 1544-0				
200 °C		● CRYLCOAT® 1622-0	● CRYLCOAT® 1660-0	● CRYLCOAT® 1783-0	
			● CRYLCOAT® 1616-2	● CRYLCOAT® 1783-1	
			● CRYLCOAT® E 04748	● CRYLCOAT® 1702-0	
180 °C	● CRYLCOAT® 1514-2		● CRYLCOAT® 1626-2	● CRYLCOAT® 1770-0	● CRYLCOAT® 1738-3
			● CRYLCOAT® 1686-3	● CRYLCOAT® 1716-0	● CRYLCOAT® 1771-3
				● CRYLCOAT® 1716-1	● CRYLCOAT® 1797-3
				● SETAPOLL™* SP125	● CRYLCOAT® E 04342
					● CRYLCOAT® E 04811
170 °C	● CRYLCOAT® 1557-5	● CRYLCOAT® 1620-0		● SETAPOLL™ SP280	
				● CRYLCOAT® 1756-0	
160 °C	● CRYLCOAT® 1593-0		● SETAPOLL™ SP170	● CRYLCOAT® 1750-1	● CRYLCOAT® 1757-6
			● CRYLCOAT® E 04329		
140 °C	● CRYLCOAT® 1506-6				
	● CRYLCOAT® 1551-6				
	● CRYLCOAT® 1582-6				
130 °C	● CRYLCOAT® 1501-6				
	● CRYLCOAT® 1545-6				

● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ polyester resins for low temperature curing

CRYLCOAT®/SETAPOLL™	Ratio	Overbake Stable	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
Typical Properties of Hybrid Resins								
CRYLCOAT® 1501-6	50 / 50			70	5500 / 175 °C	52	130	Low bake hybrid for MDF application.
CRYLCOAT® 1506-6	50 / 50			69	9000 / 175 °C	62	140	Fast cure for metal application or for low bake textured formulation for MDF.
CRYLCOAT® 1514-2	50 / 50			71	9300 / 175 °C	55	180	Excellent flow and overbake resistance.
CRYLCOAT® 1544-0	50 / 50			70	2500 / 200 °C	54	210	Low reactivity, possible to blend with other carboxyl functional polyester resins.
CRYLCOAT® 1545-6	50 / 50			72	8200 / 175°C	66	130	Low bake hybrid for MDF application. Organo-tin-free.
CRYLCOAT® 1551-6	50 / 50			71	6000 / 175 °C	51	140	High reactive with good flow on metal and heat-sensitive substrates such as MDF.
CRYLCOAT® 1557-5	50 / 50			71	2000 / 200 °C	50	170	Medium reactivity, excellent scratch resistance.
CRYLCOAT® 1582-6	50 / 50			70	5000 / 175 °C	52	160	High reactive, good flexibility and specially improved in mar- and scratch resistance.
CRYLCOAT® 1593-0	50 / 50			70	3500 / 200 °C	54	160	High reactive hybrid with good flow and gloss.
CRYLCOAT® 1616-2	60 / 40	●		48	3800 / 200 °C	62	200	Low reactivity new generation hybrid, excellent flow, overbake resistance, high gloss and excellent wetting of fillers and pigments.
CRYLCOAT® 1620-0	60 / 40			60	2700 / 200 °C	54	170	Medium reactivity, can be also used as 50/50.
CRYLCOAT® 1622-0	60 / 40			60	2500 / 200 °C	54	200	Low reactivity, can be also used as 50/50.
CRYLCOAT® 1626-2	60 / 40	●		48	3000 / 200 °C	52	180	Medium reactivity new generation hybrid, excellent flow, overbake resistance and very good gloss.
CRYLCOAT® 1660-0	60 / 40			48	9400 / 175 °C	50	200	Low reactivity, good flexibility and excellent flow with high filler load.
SETAPOLL™ SP170	60 / 40		●	55-60	2450-4500 / 200 °C	55	160	For low bake applications. Good flow and excellent gloss.
CRYLCOAT® 1686-3	60 / 40	●	●	50	3500 / 200 °C	57	180	Affordable resin with good overall technical performance.
CRYLCOAT® 1702-0	70 / 30			36	5300 / 200 °C	62	200	Slow reactivity, high TG. Excellent flow and good storage stability.
CRYLCOAT® 1716-0	70 / 30			30	6500 / 200 °C	60	180	Medium reactivity, good flow, can be used for matt systems.
CRYLCOAT® 1716-1	70 / 30			33	4700 / 200 °C	56	180	Tribo medium reactivity, good flow, can be used for matt system.
CRYLCOAT® 1738-3	70 / 30	●	●	35	5500 / 200 °C	60	180	Medium reactive Libra-hybrid, tribo and overbake-resistance. Excellent overall performance.
CRYLCOAT® 1750-1	70 / 30		●	35	4500 / 200 °C	52	160	High reactive, tribo, non-blooming.
CRYLCOAT® 1756-0	70 / 30			30	5300 / 200 °C	51	170	High reactive, TMA-free resin.
CRYLCOAT® 1757-6	70 / 30			31	5800 / 200 °C	54	160	High reactive, TMA-free. Excellent flow and good gloss.
CRYLCOAT® 1770-0	70 / 30			34	5400 / 200 °C	58	180	Medium reactivity with good balance of properties, can be used for matte systems.
CRYLCOAT® 1771-3	70 / 30	●	●	33	4700 / 200 °C	56	180	Medium reactivity new generation hybrid, Tribo, overbake resistance. Excellent overall properties.
CRYLCOAT® 1783-0	70 / 30			34	5000 / 200 °C	58	200	Excellent flow, high gloss and elasticity. Good for clears.
CRYLCOAT® 1783-1	70 / 30		●	34	5000 / 200 °C	56	200	Tribo version of CRYLCOAT® 1783-0.
CRYLCOAT® 1797-3	70 / 30	●	●	33	4800 / 200 °C	57	180	Medium reactive Libra-hybrid, tribo and overbake-resistance. With excellent process stability.
SETAPOLL™ SP125	70 / 30		●	30-36	4500-6000 / 200 °C	54	180	For standard bake applications. Very good flow and excellent gloss.
SETAPOLL™ SP280	70 / 30			30-36	2000-4500 / 200 °C	54	170	For standard bake applications. Very good flow and excellent gloss. Recommended for matt systems.
CRYLCOAT® E 04329	60 / 40	●		50	2000 / 200 °C	54	160	High reactivity new generation hybrid, Free-TMA optimised. Good flow and overbake resistance.
CRYLCOAT® E 04342	70 / 30			35	6000 / 200 °C	60	180	Medium reactive Hybrid resin based on renewable and recycled raw materials.
CRYLCOAT® E 04748	60 / 40			53	2800 / 200 °C	63	200	Low reactivity hybrid. TMA-free, high Tg, Excellent flow and good storage stability.
CRYLCOAT® E 04811	70 / 30			33	4800 / 200 °C	60	180	Medium reactive Hybrid resin based on recycled raw materials.

Polyester Resins for β-HAA Powder Coatings

	97 / 3 Acid # ~ 16-22	96.5 / 3.5 Acid # ~ 25	96 / 4 Acid # ~ 20-27	95 / 5 Acid # ~ 33	94 / 6 - 93 / 7 Acid # 40 - 52	90 / 10 Acid # ≥ 70	Superdurable: 95 / 5 Acid # 16 - 35	Superdurable: 93 / 7 Acid # > 40
Polyester Resins for Hybrid Powder Coatings								
Matte Dry Blend One Shot Matte 200 – 190 °C		● CRYLCOAT® 2670-3			● CRYLCOAT® 2671-3	● CRYLCOAT® 2621-2	● CRYLCOAT® 4641-0	● CRYLCOAT® 4420-0
		● CRYLCOAT® 2691-2			● SETAPOLL™ SP365	● CRYLCOAT® 2642-0		● CRYLCOAT® 4420-2
		● CRYLCOAT® 2611-0			● SETAPOLL™ SP395	● CRYLCOAT® 2650-3		● CRYLCOAT® 4605-2
						● CRYLCOAT® 2687-2		● CRYLCOAT® 4679-0
						● SETAPOLL™ SP238		● CRYLCOAT® 4693-2
								● CRYLCOAT® E 04884
200 - 190 °C	● SETAPOLL™ SP281			● CRYLCOAT® 2698-3	● SETAPOLL™ SP285		● CRYLCOAT® E 04327	● SETAPOLL™ SP305
	● SETAPOLL™ SP391			● SETAPOLL™ SP283			● SETAPOLL™ SP340	
							● SETAPOLL™ SP301	
							● SETAPOLL™ SP371	
180 °C	● CRYLCOAT® 2668-3		● CRYLCOAT® 2684-4	● CRYLCOAT® 2606-3	● CRYLCOAT® 2693-3		● CRYLCOAT® 4659-0	● CRYLCOAT® 4626-0
	● CRYLCOAT® 2678-3			● CRYLCOAT® 2617-3	● SETAPOLL™ SP275		● CRYLCOAT® 4659-2	
	● SETAPOLL™ SP271	● CRYLCOAT® 2607-1		● CRYLCOAT® 2618-3			● CRYLCOAT® 4688-2	
		● CRYLCOAT® 2619-3		● CRYLCOAT® 2630-2				
				● CRYLCOAT® 2651-3				
				● CRYLCOAT® 2653-3				
				● CRYLCOAT® 2661-3				
		● CRYLCOAT® 2427-3		● CRYLCOAT® 2664-3				
		● CRYLCOAT® 2627-3		● CRYLCOAT® 2666-3				
		● CRYLCOAT® 2637-3		● CRYLCOAT® 2683-3				
		● CRYLCOAT® 2640-3		● CRYLCOAT® 2686-3				
		● CRYLCOAT® 2645-3		● CRYLCOAT® 2689-0				
		● CRYLCOAT® 2489-5		● SETAPOLL™ SP075				
				● SETAPOLL™ SP103				
				● CRYLCOAT® E 04367				
170 °C	● SETAPOLL™ SP361			● SETAPOLL™ SP211				
				● SETAPOLL™ SP293				
				● SETAPOLL™ SP302				
				● SETAPOLL™ SP303				
				● CRYLCOAT® E 04272				
160 °C	● CRYLCOAT® 2668-6	● CRYLCOAT® 2697-6		● CRYLCOAT® 2609-6	● CRYLCOAT® 2693-6		● CRYLCOAT® 4655-6	● CRYLCOAT® 4643-6
				● CRYLCOAT® 2662-6				
				● CRYLCOAT® 2679-6				● CRYLCOAT® 4648-6
150 °C				● CRYLCOAT® 2696-6				

● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ new HAA resins with improved moisture resistance (water-spot)
● CRYLCOAT® and SETAPOLL™ polyester resins systems for matte finishes
● CRYLCOAT® and SETAPOLL™ polyester resins for low temperature curing

CRYLCOAT®/SETAPOLL™	Ratio	Gas Oven Stable	Overbake Stable	Blooming Resistant	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
Typical Properties of β-HAA Resins										
Full gloss system										
Exterior										
CRYLCOAT® 2607-1	96 / 4		●		●	24	5500 / 200 °C	57	180	General purpose tribo resin for low demand Primid® formulations.
CRYLCOAT® 2611-0						25	5500 / 200 °C	58	200	Slow reacting component in dull Matte One Shot formulations.
CRYLCOAT® 2617-3	95 / 5		●		●	33	3500 / 200 °C	61	180	Tribo resin with excellent flow. Overbake and gas oven resistance.
CRYLCOAT® 2619-3	96.5 / 3,5	●	●		●	23	6500 / 200 °C	62	180	Tribo resin for low demand Primid with excellent flow. Overbake and gas oven resistance.
CRYLCOAT® 2427-3	96 / 4		●		●	25	6500 / 200 °C	63	180	General purpose tribo resin for low demand HAA with good overbake to replace 70/30 Hybrid formulations.
CRYLCOAT® 2627-3	96 / 4		●	●	●	25	5000 / 200 °C	57	160	Tribo resin for low demand HAA, industrial with good overbake and improved blooming resistance.
CRYLCOAT® 2630-2	95 / 5	●	●	●		33	3400 / 200 °C	62	180	Industrial resin with excellent flow, good overbake and blooming resistance. Suitable for combination with SYNTHACRYL® 700.
CRYLCOAT® 2637-3	96 / 4		●		●	25	5500 / 200°C	60	180	Tribo resin for low demand HAA, industrial with good overbake and good storage stability.
CRYLCOAT® 2662-6	95 / 5	●	●	●	●	31	4000 / 200 °C	55	160	Low bake Primid resin for industrial application.
CRYLCOAT® 2683-3	95 / 5		●		●	36	3500 / 200 °C	62	180	Tribo resin for standard applications with improved overbake. Very good flow, excellent gloss and improved boiling water resistance.
CRYLCOAT® 2684-4	96 / 4					20-28	8000-10500 / 200 °C	58	180	Resin exhibit excellent flow, good outdoor durability and do not require any flow promoter.
CRYLCOAT® 2687-2			●			90	3000 / 200 °C	58	200	Fast reacting component in dull Matte One Shot formulations.
CRYLCOAT® 2489-5	96 / 4					25	6500 / 200 °C	59	180	Sustainable resin for low demand Primid, industrial with good flow and flexibility.
CRYLCOAT® 2689-0	95/5					34	4000 / 200 °C	62	180	Basic resin, industrial with good balance of properties.
CRYLCOAT® 2696-6	95 / 5	●	●	●	●	37	4000 / 200 °C	60	160	Low bake Primid resin for Industrial application. High Tg.
CRYLCOAT® 2697-6	96 / 4	●	●	●	●	26	4000 / 200 °C	54	160	Low bake Primid resin for industrial application: good flow and mechanical properties.
CRYLCOAT® 2698-3	95 / 5	●	●		●	33	3500 / 200 °C	56	180	Tribo active resin with outstanding flow and degassing properties up to 160 µ. Overbake and gas oven resistance.
SETAPOLL™ SP075	95 / 5		●		●	33-38	2000-4000 / 200 °C	62	180	For standard applications. Very good flow and excellent gloss.
SETAPOLL™ SP103	95 / 5				●	33-39	6500-9000 / 200 °C	68	180	General purpose resin. It is for use in the ratio 95:5 with HAA, but can also be cured with PT910 at a ratio 92:8, TGIC at a ratio 93:7 and epoxy resin at 70:30 ratio.
SETAPOLL™ SP211	95 / 5	●		●		28	5700 / 200 °C	58	170	Low bake non-tribo application, non blooming and gas oven stable.
SETAPOLL™ SP271	97 / 3		●			16-22	6500-9500 / 200 °C	55	170	Low hardener demand. For standard bake applications. Very good flow and gloss. Can be used as part of matt pair system with SETAPOLL™ SP275.
SETAPOLL™ SP391	97 / 3		●		●	16-22	6500-9500 / 200 °C	55	200	Low hardener demand. For standard bake applications. Very good flow and gloss. Tribo version of SETAPOLL™ SP271. Can be used as part of matt pair system with SETAPOLL™ SP395.
CRYLCOAT® E 04367	95 / 5					33	4000 / 200 °C	59	180	Bio-based polyester for HAA Industrial outdoor powder coatings with good overall properties.
CRYLCOAT® E 04742	95 / 5	●		●		28	5700 / 200 °C	58	170	Organo tin-free resin version of SETAPOLL™ SP 211.
Durable										
CRYLCOAT® 2606-3	95 / 5	●	●		●	33	4500 / 200 °C	66	180	Tribo resin with excellent weathering and very good flow. Improved blanching resistance. Overbake and gas oven resistance. High Tg.
CRYLCOAT® 2609-6	95 / 5	●	●	●	●	31	5000 / 200 °C	60	160	Low bake Primid resin for architectural application with optimized weathering properties.
CRYLCOAT® 2618-3	95 / 5	●	●		●	33	3100 / 200 °C	61	180	Tribo resin with excellent weathering and very good flow. Overbake and gas oven resistance.
CRYLCOAT® 2640-3	96,5 / 3,5	●	●		●	23	7000 / 200 °C	60	180	Enhanced architectural low demand Primid resin.
CRYLCOAT® 2645-3	96,5 / 3,5					23	7500 / 200 °C	62	180	Low demand combining good mechanical properties with excellent outdoor durability, blooming- and water-spot resistance.
CRYLCOAT® 2651-3	95 / 5	●	●		●	32	3000 / 200 °C	55	180	Enhanced architectural Primid resin with outstanding flow and degassing properties up to 160 µ. Overbake and gas oven resistance.
CRYLCOAT® 2653-3	95 / 5		●		●	33	3500 / 200 °C	64	180	Polyester-HAA for Architectural application with improved corrosion resistance.
CRYLCOAT® 2661-3	95 / 5	●	●	●	●	30	3200 / 200 °C	58	180	Good flow and degassing properties, improved storage stability and excellent outdoor durability combined with improved overbake, gas oven and blanching resistance.
CRYLCOAT® 2664-3	95 / 5	●	●		●	33	3200 / 200 °C	58	180	Tribo resin with excellent weathering and very good flow. Improved blanching resistance. Overbake and gas oven resistance.

CRYLCOAT®/SETAPOLL™	Ratio	Gas Oven Stable	Overbake Stable	Blooming Resistant	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
CRYLCOAT® 2666-3	95 / 5	●	●	●	●	30	3800 / 200 °C	58	180	Tribo resin for enhanced architectural application with excellent weathering and very good flow. Improved blanching resistance. Overbake and gas oven resistance.
CRYLCOAT® 2668-3	97 / 3	●	●		●	18	7000 / 200°C	60	180	Architecture grade, low demand of HAA, tribo active for matte dry blend. To be used in combination with CRYLCOAT® 2693-3.
CRYLCOAT® 2668-6	97 / 3	●	●		●	18	12000 / 200°C	60	160	Resin tribo active for matte dry blend low bake to be used in combination with CRYLCOAT® 2693-6.
CRYLCOAT® 2670-3	97 / 3	●	●		●	21	8000 / 200 °C	61	190	For matte dry blend systems in combination with high demand Primid resins. Optimised weathering resistance.
CRYLCOAT® 2679-6	95 / 5	●	●	●	●	32	7000 / 200 °C	54	160	Low bake Primid resin for architectural application.
CRYLCOAT® 2686-3	95 / 5	●	●	●	●	31	3300 / 200 °C	55	180	Enhanced architectural Primid resin.
CRYLCOAT® 2691-2	97 / 3		●			21	7600 / 200 °C	62	180	For matte dry blend systems in combination with high demand Primid resins.
SETAPOLL™ SP281	97 / 3		●			16-22	1000-3000 / 200 °C	50	200	Architectural grade with good flow and gloss. Can be used as part of matt pair system with SETAPOLL™ SP285.
SETAPOLL™ SP283	95 / 5		●	●	●	32-37	1500-3500 / 200 °C	50	200	Architectural grade. For standard bake applications. Excellent flow achievable with different HAA grades. Excellent mechanical properties.
SETAPOLL™ SP289	95 / 5		●	●	●	32-37	1000-3000 / 200 °C	50	200	Architectural grade. For standard bake applications. Excellent flow and appearance.
SETAPOLL™ SP293	95 / 5	●	●		●	30-35	1500-4500 / 200 °C	55	180	Architectural grade. For standard bake applications. Very good flow and gloss. Reduced bloom. Suitable for textured finishes.
SETAPOLL™ SP302	95 / 5		●		●	32-37	1500-3500 / 200 °C	54	180	Architectural grade. For standard bake applications. Very good flow and gloss.
SETAPOLL™ SP303	95 / 5	●	●	●		25-30	3000-5500 / 200 °C	58	170	Architectural grade. For low bake applications. Very good flow and gloss.
SETAPOLL™ SP361	97 / 3	●	●	●	●	16-22	5500-8500 / 200 °C	60	170	Architectural grade. For low bake applications. Very good flow and gloss.
Superdurable										
CRYLCOAT® 4626-0	92 / 8			●		50	4300 / 175 °C	64	180	Superdurable resin suitable for high Tg powder coatings.
CRYLCOAT® 4627-2	95 / 5			●		33	1500 / 200 °C	58	200	Superdurable resin with improved corrsoion resistance.
CRYLCOAT® 4641-0	97 / 3			●		20	4300 / 200 °C	60	200	Resin for matte dry blend superdurable systems in combination with high demand Primid resins.
CRYLCOAT® 4643-3	93 / 7	●	●	●	●	50	1800 / 200 °C	62	160	Superdurable resin with high functionality and good flow.
CRYLCOAT® 4648-0	94 / 6	●	●	●	●	38	6000 / 175 °C	52	160	Superdurable resin for low bake formulations.
CRYLCOAT® 4655-2	95 / 5	●	●	●		31	8000 / 200 °C	66	160	High functional superdurable resin.
CRYLCOAT® 4659-0	95 / 5			●		33	3700 / 200 °C	59	190	Superdurable resin with some flexibility. Can be used in Primid® and TGIC formulations.
CRYLCOAT® 4659-2	95 / 5			●		33	3700 / 200 °C	59	190	Superdurable resin with some flexibility and good overbake resistance. Can be used in Primid® and TGIC formulations.
CRYLCOAT® 4688-2	95 / 5	●	●	●		30	5500 / 175 °C	54	180	Superdurable resin with good flexibility and excellent flow. Suitable for ACE applications.
SETAPOLL™ SP340	95 / 5	●		●		32-37	4500-6500 / 200 °C	60	200	Superdurable grade. For standard bake applications. Good flow and gloss. Good mechanical aging properties.
SETAPOLL™ SP301	96 / 4			●		22-27	2500-5000 / 200 °C	60	200	Superdurable grade. For standard bake applications. Very good flow and gloss. Can be used as part of matt pair system with SETAPOLL™ SP305.
CRYLCOAT® E 04327	95 / 5			●		33	1500 / 200°C	58	200	Superdurable grade with outstanding outdoor durability and improved corrosion resistance.

CRYLCOAT®/SETAPOLL™	Ratio	Gas Oven Stable	Overbake Stable	Blooming Resistant	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
Matt systems										
Exterior										
CRYLCOAT® 2621-2	88 / 12		●			72	9000 / 200 °C	62	190	For matte dry-blend systems in combination with CRYLCOAT® 2691-2. Industrial application.
CRYLCOAT® 2642-0	90 / 10					72	2500 / 200 °C	52	180	For matte dry blend systems in combination with CRYLCOAT® 2691-2. Industrial application.
SETAPOLL™ SP275	93 / 7		●			46-52	2500-4500 / 200 °C	60	200	Industrial grade. Non-Tribo version of SETAPOLL™ SP395. For use as part of matt pair system with SETAPOLL™ SP271.
SETAPOLL™ SP238	90 / 10					70-90	2000-4000 / 200 °C	63	200	For standard bake. Can be dry blended with other SETAPOLL™ resins for maximum gloss reduction in matt systems and also for special applications.
SETAPOLL™ SP395	93 / 7		●		●	46-52	2500-4500 / 200 °C	60	200	For standard bake. Tribo version of SETAPOLL™ SP275. For use as part of matt pair system with SETAPOLL™ SP391.
Durable										
CRYLCOAT® 2650-3	90 / 10	●	●		●	70	6200 / 175 °C	51	190	For matte dry blend systems in combination with CRYLCOAT® 2670-3. Optimised weathering resistance.
CRYLCOAT® 2671-3	93 / 7	●	●		●	48	5800 / 200 °C	58	190	For matte dry blend systems in combination with CRYLCOAT® 2670-3. Optimised weathering resistance.
CRYLCOAT® 2693-3	93 / 7	●	●		●	55	8000 / 200°C	60	180	Architecture grade, tribo active, good overbake resistance for matte dry blend. To be used in combination with CRYLCOAT® 2668-3.
CRYLCOAT® 2693-6	93 / 7	●	●		●	54	11000 / 200°C	60	160	Architecture grade, tribo active, good oberbake resistance for matte dry blend, low bake. To be used in combination with CRYLCOAT® 2668-6.
SETAPOLL™ SP285	93 / 7		●			46-52	1000-3000 / 200 °C	50	200	Architectural grade. For standard bake applications. to be used with SETAPOLL™ SP281 for matt pair system.
SETAPOLL™ SP365	93 / 7	●	●		●	46-52	3500-5500 / 200 °C	57	160	Architectural grade. For low bake. Reduced blooming. For use as part of matt pair system with SETAPOLL™ SP361.
Superdurable										
CRYLCOAT® 4420-0	92 / 8			●		51	5500 / 200 °C	64	200	Resin for matte dry blend superdurable systems in combination with CRYLCOAT® 4641-0.
CRYLCOAT® 4420-2	92 / 8		●	●		51	5500 / 200 °C	64	200	Resin with good overbake resistance, for matte dry blend superdurable systems in combination with CRYLCOAT® 4641-0.
CRYLCOAT® 4605-2	92 / 8		●	●		55	3500 / 200 °C	60	200	Resin with excellent overbake resistance, for matte dry blend superdurable systems in combination with SETAPOLL™ SP301 or CRYLCOAT® 4641-0.
CRYLCOAT® 4679-0	90 / 10			●		70	7500 / 175 °C	63	200	Resin for matte dry-blend Primid superdurable in combination with CRYLCOAT® 4641-0.
CRYLCOAT® 4693-2	88 / 12		●	●		88	3500 / 200 °C	55	200	Resin with overbake stabilisation, for matte dry-blend Primid superdurable in combination with CRYLCOAT® 4641-0.
SETAPOLL™ SP305	92 / 8			●		53-58	2000-4500 / 200 °C	61	200	Superdurable grade. For standard bake. For use as part of matt pair system with SETAPOLL™ SP301.
CRYLCOAT® E 04884	92 / 8			●		61	2100 / 200°C	56	200	Superdurable grade for 1-shot semi-matte. Can be as well used for matte dry blend superdurable systems in combination with SETAPOLL™ SP301 or CRYLCOAT® 4641-0.

Polyester Resins for TGIC Powder Coatings

	93/7 AV ~ 33	96/4 - 95/5 AV 20 - 25	90/10 AV ~ 50	Superdurable
Polyester Resins for TGIC Powder Coatings				
200 °C	● CRYLCOAT®* 2441-2	● CRYLCOAT® 2432-0	● CRYLCOAT® 2414-0	● CRYLCOAT® 4420-0
	● CRYLCOAT® 2441-3	● CRYLCOAT® 2496-2		● CRYLCOAT® 4420-2
	● CRYLCOAT® 2471-4	● CRYLCOAT® 2427-3		● CRYLCOAT® 4430-0
	● CRYLCOAT® E 04417	● CRYLCOAT® 2489-5		● CRYLCOAT® 4488-0
				● CRYLCOAT® E04484
190 °C	● CRYLCOAT® 2440-2			
	● CRYLCOAT® 2425-0			
180 °C	● CRYLCOAT® 2450-2		● CRYLCOAT® 2490-2	
160 °C	● CRYLCOAT® 2433-2			

● CRYLCOAT®* polyester resins
● CRYLCOAT® polyester resins systems for matte finishes
● CRYLCOAT® polyester resins for low temperature curing

CRYLCOAT®	Ratio	Overbake Stable	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
Typical Properties of TGIC Resins								
CRYLCOAT® 2414-0	93 / 7			47	4700 / 200 °C	57	200	For matte dry-blend in combination with CRYLCOAT® 2432-0 with good smoothness and good outdoor durability.
CRYLCOAT® 2425-0	93 / 7			34	6200 / 200 °C	70	190	Medium reactivity, high Tg.
CRYLCOAT® 2427-3	95 / 5	●	●	25	6600 / 200 °C	62	200	Low demand TGIC, suitable for general industrial applications.
CRYLCOAT® 2432-0	96 / 4			20	7900 / 200 °C	53	200	For matte dry blend systems in combination with CRYLCOAT® 2490-2.
CRYLCOAT® 2433-2	93 / 7	●		33	3500 / 200 °C	60	160	High reactivity, good flow and flexibility.
CRYLCOAT® 2440-2	93 / 7	●		33	5100 / 200 °C	67	190	Standard resin, good flow and flexibility, stabilized.
CRYLCOAT® 2441-2	93 / 7	●		33	5000 / 200 °C	67	200	Low reactive resin, excellent flow, stabilized.
CRYLCOAT® 2441-3	93 / 7	●	●	33	4600 / 200 °C	67	200	Tribo version of CRYLCOAT® 2441-2.
CRYLCOAT® 2450-2	93 / 7	●		33	5000 / 200 °C	67	180	Accelerated version of CRYLCOAT® 2441-2.
CRYLCOAT® 2471-4	93 / 7	●		33	3500 / 200 °C	58	200	Low reactive resin for clear coat formulations, excellent smoothness and clarity.
CRYLCOAT® 2489-5	95 / 5			25	6500 / 200 °C	59	200	Sustainable resin for low demand TGIC, industrial with good flow and flexibility.
CRYLCOAT® 2490-2	90 / 10	●		47	4800 / 200 °C	69	180	For matte dry blend systems in combination with CRYCLOAT 2432-0.
CRYLCOAT® 2496-2	95 / 5	●		23	7200 / 200 °C	62	200	General purpose resin for low demand TGIC, high Tg.
CRYLCOAT® E 04417	93 / 7	●		32	4000 / 200 °C	62	200	Resin for TGIC with improved corrosion resistance.
CRYLCOAT® 4420-0	90 / 10			51	5500 / 200 °C	64	200	Superdurable resin. May be used alone or as part of matte dry blend system in combination with CRYLCOAT® 4430-0.
CRYLCOAT® 4420-2	90 / 10	●		51	5500 / 200 °C	64	200	Superdurable resin. With overbake resistance. May be used alone or as part of matte dry blend system in combination with CRYLCOAT® 4430-0.
CRYLCOAT® 4430-0	93 / 7			35	2000 / 200 °C	62	200	Superdurable resin with outstanding flow. May be used alone or as part of matte dry blend system in combination with CRYLCOAT® 4420-0.
CRYLCOAT® 4488-0	93 / 7			33	5400 / 200 °C	64	200	Superdurable resin for TGIC with outstanding weathering resistance.
CRYLCOAT® E 04484	93 / 7			32	5500 / 200 °C	66	200	Superdurable resin for TGIC with outstanding outdoor durability and improved corrosion resistance.

Polyester Resins for Glycidylester Powder Coatings

Type	92 / 8 - 91 / 9 AV ~ 33	93 / 7 AV ~ 25	Superdurable 93/7 AV ~ 25
Polyester Resins for Glycidylester Powder Coatings			
200 °C	● CRYLCOAT®* 2501-2	● CRYLCOAT® 2593-0	● CRYLCOAT® 4540-0
		● CRYLCOAT® 2592-1	
180 °C	● CRYLCOAT® 2506-1		
	● CRYLCOAT® 2505-4		
170 °C	● CRYLCOAT® 2578-0		
160 °C	● CRYLCOAT® 2594-6		

● CRYLCOAT®* polyester resins
● CRYLCOAT® polyester resins systems for matte finishes
● CRYLCOAT® polyester resins for low temperature curing

CRYLCOAT®	Ratio	Overbake Stable	Tribo	AV	Viscosity	Tg (°C)	Cure T (°C)	Description
Typical Properties of Glycidylester Resins								
CRYLCOAT® 2501-2	91 / 9	●		33	9400 / 200 °C	73	200	Excellent flow, flexibility and chemical resistance.
CRYLCOAT® 2505-4	92 / 8	●		33	4500 / 200 °C	65	180	Resin for clear formulations with excellent flow and transparency.
CRYLCOAT® 2506-1	91 / 9		●	33	5000 / 200 °C	67	180 (15 ')	General purpose tribo resin.
CRYLCOAT® 2578-0	92 / 8			33	9000 / 200 °C	71	170	Resin suitable for low temperature curing.
CRYLCOAT® 2592-1	93 / 7	●	●	26	9500 / 200 °C	69	200	General purpose tribo resin.
CRYLCOAT® 2593-0	93 / 7			26	10500 / 200 °C	70	200 (15 ')	Outstanding flow, recommended for use in clear.
CRYLCOAT® 2594-6	92 / 8			32	4500 / 200 °C	67	160	High reactive with good flow and good outdoor durability.
CRYLCOAT® 4540-0	93 / 7			25	9000 / 200 °C	67	200	Superdurable resin with excellent properties.

Resins and Hardeners for Urethane Powder Coatings

	OHV 30	OHV 50	OHV 100 –180	OHV 300	Superdurable
Hydroxyl Polyester Resins for Urethane Powder Coatings					
200 °C	● CRYLCOAT®* 2890-0	● CRYLCOAT® 2883-0	● CRYLCOAT® 2857-5	● CRYLCOAT® 2814-0	● CRYLCOAT® 840-0
		● CRYLCOAT® 2839-0			● CRYLCOAT® 862-2
		● CRYLCOAT® 2860-0			● CRYLCOAT® 874-0
					● CRYLCOAT® 890-0
190 °C			● CRYLCOAT® 2818-0		

● CRYLCOAT®* polyester resins
● CRYLCOAT® polyester resins systems for matte finishes

Wrinkle System	Anhydride Hardener	NCO Hardeners	Utility Resins
Special Hydroxyl Polyester Resins and Hardeners			
● CRYLCOAT®* 2920-0	● BECKOPOX™* EH 694	● ADDITOL® P932	● CRYLCOAT® 9292-0
● ADDITOL®* P920		● ADDITOL® P965	● CRYLCOAT® 9240-0

● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ polyester resins systems for matte finishes
● ADDITOL®* Catalyst-Masterbatch and Isocyanate hardeners for powder coatings
● BECKOPOX™* Anhydride hardener

CRYLCOAT®	OHV	Viscosity	Tg (°C)	Cure T (°C)	Description
Typical Properties of Urethane Resins					
CRYLCOAT® 2814-0	300	3200 / 200 °C	52	200	Outstanding hardness, chemical and stain resistance. Useful for low gloss formulations.
CRYLCOAT® 2818-0	100	3000 / 200 °C	58	190	Improved chemical and stain resistance. Can be used to produce thermally stable coatings.
CRYLCOAT® 2839-0	50	5500 / 200 °C	57	200	Good flow and resistance properties. Good for clears.
CRYLCOAT® 2857-5	180	2600 / 200 °C	52	200	NPG free for use with blocked polyisocyanates, uretdiones or anhydride hardner BECKOPOX™ EH 694.
CRYLCOAT® 2860-0	50	3500 / 200 °C	52	200	Resin for one shot matte systems in combination with CRYLCOAT® 2814-0.
CRYLCOAT® 2883-0	47	4000 / 200 °C	61	200	Excellent flow, high hardness and good outdoor durability. High Tg.
CRYLCOAT® 2890-0	30	7200 / 200 °C	60	200	Resin to be used with blocked isocyanates providing outstanding flow and good outdoor durability.
CRYLCOAT® 2920-0	33	12700 / 200 °C	67	200	Produces durable wrinkle finishes in combination with ADDITOL® P 920.
CRYLCOAT® 4840-0	30	5000 / 200 °C	57	200	Superdurable resin for one shot matte systems in combination with CRYLCOAT® 4874-0.
CRYLCOAT® 4862-2	220	2400 / 200 °C	54	190	Superdurable resin with good flexibility and excellent chemical resistance.
CRYLCOAT® 4874-0	295	3300 / 200 °C	52	200	Superdurable resin for one shot matte systems in combination with CRYLCOAT® 4840-0.
CRYLCOAT® 4890-0	30	5000 / 200 °C	58	200	Superdurable resin with excellent properties.

ADDITOL®	OHV	Viscosity	Tg (°C)	Cure T (°C)	Description
ADDITOL® P920	42	8500 / 200 °C	N / A	N / A	Catalyst masterbatch for CRYLCOAT® 2920-0 to obtain durable wrinkle finish. 5% active substance.

ADDITOL®	NCO %	Viscosity	Tg (°C)	Cure T (°C)	Description
ADDITOL® P932	9-10	N / A	47	N / A	Aliphatic urethane pre-polymer crosslinker. For outdoor applications.
ADDITOL® P965	16-17	N / A	51	N / A	Aromatic urethane adduct crosslinker. For indoor applications.

BECKOPOX™	PAV	Tg (°C)	Cure T (°C)	Description
BECKOPOX™ EH 694	275	50-60	N / A	Anhydride hardener for OH polyester or acrylic or epoxy resins. Outstanding chemical and overbake resistance.

CRYLCOAT®	OHV	Viscosity	Tg (°C)	Cure T (°C)	Description
CRYLCOAT® 9240-0	37	24000 / 200 °C	58	N / A	OH polyester with very high viscosity. Outstanding chemical and overbake resistance with very high viscosity.
CRYLCOAT® 9292-0	37	4000 / 200 °C	58	200 °C	For use as organic filler or for indoor coatings with aromatic urethane hardeners.

Resins and Additives for UV-curable Powder Coatings

Metal	MDF / Wood	Plastics
Resins for UV-curable Powder Coatings		
● UVECOAT®* 2100	● UVECOAT® 3005	● UVECOAT® 3003
● UVECOAT® 2200		
● UVECOAT® 9539		

Co-Reactant	Semi-crystalline
Additives and Specialty Resins for UV-curable Powder Coatings	
● UVECOAT® 9146	● UVECOAT® 9010

● UVECOAT®* unsaturated resins for UV-curable powder coatings

UVECOAT®	AV	Viscosity	Tg (°C)	Description
Typical Properties of UV-curable Resins				
UVECOAT® 2100	≤ 3	5500 / 200 °C	57	For metal applications. Exterior durable. Can be pigmented or used as clear.
UVECOAT® 2200	< 2	4500 / 175 °C	54	Outstanding weathering for metal applications. Can be pigmented or used as clear.
UVECOAT® 3003	≤ 3	3200 / 175 °C	49	For PVC flooring applications. Improved chemical and abrasion resistance with good flexibility. Not for exterior applications.
UVECOAT® 3005	≤ 10	4000 / 200 °C	48	For wood and wood substrate applications. Can be pigmented or used as a clear. Excellent scratch resistance.
UVECOAT® 9010	≤ 3	350 / 100 °C	MT = 85	Semi-crystalline co-resin for UV-curable formulations giving improved mechanical performance, flexibility, and smoothness.
UVECOAT® 9146	≤ 15	55000 / 140 °C	55	Unsaturated urethane acrylate for use as a "crosslinker" in UV powder coatings. Enhances reactivity, surface hardness and chemical resistance.
UVECOAT® 9539	≤ 13	4000 / 200 °C	44	For metal applications. To provide excellent adhesion of UV curable powder to a wide variety of metal substrates.

Masterbatches and Additives for Powder Coatings

Catalysts	Flow Promoters	Flow Aids	Tribo Additives
Masterbatches and Additives for Powder Coatings			
● ADDITOL® P964	● ADDITOL® P896	● MODAFLOW® POWDER III	● ADDITOL® P950
	● ADDITOL® P824	● MODAFLOW® POWDER 3000	
	● ADDITOL® P891	● MODAFLOW® POWDER 6000	
	● ADDITOL® P890		

Polyanhydride Hardener	Matting Hardener
Acrylic Resins and Additives for Powder Coatings	
● ADDITOL® P791	● SYNTHACRYL® 700
	● SYNTHACRYL® 710

● ADDITOL®* Masterbatches for powder coatings
● SYNTHACRYL®* Acrylic hardeners for powder coatings
● MODAFLOW® Powder* Flow-promoter on silica carrier for powder coatings

Products	AV/OHV	Viscosity	Tg (°C)	Description
Typical Properties of Masterbatches and Additives				
ADDITOL® P824	OHV 45	1400 / 200 °C	49	Flow-aid masterbatch for pigmented durable coatings. 15 % active substance in an outdoor resistant hydroxylated polyester matrix.
ADDITOL® P891	AV 35	2300 / 200 °C	56	Flow-aid masterbatch for clear powder coatings. 5 % active substance in an outdoor resistant carboxylated polyester matrix.
ADDITOL® P896	OHV 45	1700 / 200 °C	57	Flow-aid masterbatch for pigmented powder coatings. 15 % active substance in an outdoor resistant hydroxylated polyester matrix.
ADDITOL® P890	OHV 45	1500 / 200 °C	52	Flow-aid masterbatch for clear powder coatings. 10 % active substance in an outdoor resistant hydroxylated polyester matrix.
ADDITOL® P950	OHV 28	7500 / 200 °C	N / A	Tribo masterbatch for indoor and outdoor coatings. 5 % active substance.
ADDITOL® P964	AV 33	3200 / 200 °C	N / A	Catalyst masterbatch for hybrids, TGIC or PT 910 systems. 5 % active substance.

Products	Active %	Volatile Loss %	Density g/cm³	Description
MODAFLOW® POWDER III	Min 65	Max 4	0.58 – 0.64	Addition at 0.6 – 1.5 % of the total formulation. Based on FDA listed monomers.
MODAFLOW® POWDER 3000	Min 65	Max 4	0.58 – 0.64	Addition at 0.75 – 1.0 % of the total formulation. Good flow and gloss. Reduces cross-contamination issues.
MODAFLOW® POWDER 6000	Min 65	Max 4	0.58 – 0.64	Addition at 0.75 – 1.0 % of the total formulation. Excellent flow and gloss. Reduces cross-contamination issues.

Product	EEW	Viscosity	Tg (°C)	Description
SYNTHACRYL® 700	774	39800 / 200 °C	80	Glycidyl poly-acrylic resin designed as a matting hardener in combination with carboxylated polyesters.
SYNTHACRYL® 710	612	24500 / 200 °C	52	Glycidyl poly-acrylic resin designed as a matting hardener in combination with carboxylated polyesters with mechanical properties.

Product	PAV	Viscosity	MT (°C)	Description
ADDITOL® P791	317	N / A	85	Aliphatic polyanhydride hardener for use with solid acrylic resins containing glycidyl groups.

Superdurable Resins for Powder Coatings

TGIC	Primid®	Araldite® PT 910	Isocyanate
Superdurable Resins for Powder Coatings			
● CRYLCOAT® 4420-0	● CRYLCOAT® 4420-0	● CRYLCOAT® 4540-0	● CRYLCOAT® 4840-0
● CRYLCOAT® 4420-2	● CRYLCOAT® 4420-2		● CRYLCOAT® 4862-2
● CRYLCOAT® 4430-0	● CRYLCOAT® 4605-2		● CRYLCOAT® 4874-0
● CRYLCOAT® 4488-0	● CRYLCOAT® 4626-0		● CRYLCOAT® 4890-0
● CRYLCOAT® E 04484	● CRYLCOAT® 4627-2		
	● CRYLCOAT® 4641-0		
	● CRYLCOAT® 4643-3		
	● CRYLCOAT® 4648-0		
	● CRYLCOAT® 4655-2		
	● CRYLCOAT® 4659-0		
	● CRYLCOAT® 4659-2		
	● CRYLCOAT® 4679-0		
	● CRYLCOAT® 4688-2		
	● CRYLCOAT® 4693-2		
	● SETAPOLL™* SP301		
	● SETAPOLL™ SP305		
	● SETAPOLL™ SP340		
	● CRYLCOAT® E 04327		
	● CRYLCOAT® E 04884		

● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ polyester resins systems for matte finishes

Gloss Control Systems for Powder Coatings

	Primid Standard	Primid Superdurable	TGIC Standard	TGIC Superdurable
Dry-Blend Systems				
Min 30%	● CRYLCOAT®* 2670-3 AV 21	● CRYLCOAT® 4641-0 AV 20	● CRYLCOAT® 2432-0 AV 20	● CRYLCOAT® 4430-0 AV 35
	● CRYLCOAT® 2671-3 AV 48	● CRYLCOAT® 4420-0 AV 51	● CRYLCOAT® 2414-0 AV 47	● CRYLCOAT® 4420-0 AV 51
	● CRYLCOAT® 2668-3 AV 18	● CRYLCOAT® 4641-0 AV 20	● CRYLCOAT® 2432-0 AV 20	● CRYLCOAT® 4430-0 AV 35
	● CRYLCOAT® 2693-3 AV 55	● CRYLCOAT® 4420-2 AV 51	● CRYLCOAT® 2490-2 AV 47	● CRYLCOAT® 4420-2 AV 51
	● SETAPOLL™* SP271 AV 19	● SETAPOLL™ SP301 AV 24		
	● SETAPOLL™ SP275 AV 49	● SETAPOLL™ SP305 AV 55		
	● SETAPOLL™ SP281 AV 19	● SETAPOLL™ SP301 AV 24		
	● SETAPOLL™ SP285 AV 49	● CRYLCOAT® 4605-2 AV 55		
	● SETAPOL SP361 AV 20			
	● SETAPOLL™ SP365 AV 50			
	● SETAPOLL™ SP391 AV 20			
	● SETAPOLL™ SP395 AV 50			
Min 20%	● CRYLCOAT® 2670-3 AV 21	● CRYLCOAT® 4641-0 AV 20		
	● CRYLCOAT® 2650-3 AV 70	● CRYLCOAT® 4679-0 AV 70		
	● CRYLCOAT® 2668-6 AV 18	● CRYLCOAT® 4641-0 AV 20		
	● CRYLCOAT® 2693-6 AV 54	● CRYLCOAT® 4693-2 AV 88		
	● CRYLCOAT® 2691-2 AV 21			
	● CRYLCOAT® 2642-0 AV 72			
	● CRYLCOAT® 2691-2 AV 21			
	● CRYLCOAT® 2621-2 AV 72			
	● SETAPOLL™ SP271 AV 19			
	● SETAPOLL™ SP238 AV 80			

	Urethane	Acrylic	Glycoluril	Primid
One Shot Matte Systems				
Min 20 %				● CRYLCOAT® E 04884
< 12 %	● CRYLCOAT® 2860-0 OHV 50	● SYNTHACRYL® 700	● CRYLCOAT® 2920-0	● CRYLCOAT® 2687-2
	● CRYLCOAT® 2814-0 OHV 300	● CRYLCOAT® 2441-2	● ADDITOL® P920	● CRYLCOAT® 2611-0
	● CRYLCOAT® 4840-0 OHV 30	● SYNTHACRYL® 710		
	● CRYLCOAT® 4874-0 OHV 295	● CRYLCOAT® 2441-2		

● CRYLCOAT®* and SETAPOLL™* polyester resins
● CRYLCOAT® and SETAPOLL™ polyester resins systems for matte finishes
● ADDITOL®* and SYNTHACRYL®* systems and additives

Health, Safety and Product Handling

Toxicity
CRYLCOAT® and SETAPOLL™ polyester products are solid 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 grouded to prevent electrical sparking. For more information on each product, please consult the current material safety data sheet (MSDS) which will be provided by allnex. Take into account the potential risk resulting in formulation with other materials such as catalysts, hardeners, pigments, and fillers.

Storage
BECKOPOX™, CRYLCOAT®, SETAPOLL™, UVECOAT®, SYNTHACRYL® and ADDITOL® resins should be stored according to guidelines mentioned in the material safety data sheet (MSDS) and kept away from heat sources, humidity 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
BECKOPOX™, CRYLCOAT®, SETAPOLL™, UVECOAT®, SYNTHACRYL®, and ADDITOL® resins have a minimum shelf life of one year after shipment when stored according to guidelines mentioned in the material safety data sheet (MSDS). The shelf life of MODAFLOW® powder products is typically at least four years, when stored in the recommended environment.

Packaging Information
CRYLCOAT®, SETAPOLL™, 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. BECKOPOX™ is typically provided in 25 kg paper bags with polyethylene in-liner.

Glossary of Terms

Key Word	Description
Acid Value (AV)	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.
Curing Temperature	The metal or object temperature required to fully cure the powder coating system in 10 minutes.
Epoxy Equivalent Weight (EEW)	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 Florida under defined angle direction South.
Glass Transition Temperature (Tg)	The characteristic temperature in °C of an amorphous polymer corresponding to the change from a solid to liquid state as measured by DSC.
Gloss	Degree to which a surface reflects light.
Hydroxyl Value (OHV)	The amount of KOH, reported in mg, equivalent to the hydroxyl content of one gram of polyester.
Matte	A coating appearance that reflects a minimal amount of light.
Melting Temperature (MT)	The characteristic temperature in °C at which a solid material becomes a liquid.
Partial Acid Value (PAV)	After partial reactions of the anhydride group with a monofunctional alcohol, the amount of KOH, reported in mg, necessary to neutralize the acid content of one gram polymer.
Polyester/Hardener Ratio	Weight ratio between the polyester resin and the hardener recommended for optimal properties.
Storage Stability	Ability of powder coatings to maintain free flow powder properties after being subjected to a specified storage condition.
Superdurable	A polyester resin that exhibits extended outdoor weathering characteristics, typically maintaining > 50 % gloss retention after 3 years (EU) and min. 30% gloss retention after 5 years (US) exposed in Florida at defined angle direction South.
Viscosity	The melt viscosity of the polymer, measured with a Brookfield1 viscometer in mPa.s at a specified temperature.
Wrinkle	A unique, special effect finish characterized by closely associated ridge-like structures.
Blanching resistant resins	Resins providing less sensitivity towards whitening effect of powder coating films caused by absorption of moisture, especially of powders formulated with basic HAA hardeners.

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