



Product Overview Europe

# Powder Coating Resins

HEALTH • NUTRITION • MATERIALS





# Together we shape the world of powder

DSM is the world's leading supplier of innovative resins for powder coatings, committed to the powder coating industry. Together with you, we are dedicated to developing new powder coating solutions that help make the planet a cleaner, greener place. Whether you need a powder coating that is easy to spray and creates less waste, or one that shrugs off the scratches and bumps endured in everyday life, working with you we can make a world of difference in the coating industry. And that difference is a better, cleaner industry that helps brighten up lives.

## Brightening up lives across the value chain

Our innovative resins brighten up life for our customers. And they include the people who actually apply coatings, as well as those who buy the finished products. We help customers develop formulas for specific functions and better performance. With today's technology, coatings can be applied in thinner layers and cured at lower temperatures to speed up the process and reduce energy costs. Moreover, all our powder coating resins are non-hazardous, making the coater's job healthier and happier.

Of course, it is the consumer who finally gets to appreciate the beauty of the end product; a durable, high gloss lustre that will not fade in the sun. A long-life, environmentally friendly coating, designed to resist scratching and corrosion and which bears no harm to the planet. All of which helps create brighter lives for generations to come.

## Committed to powder coatings

In the 1960s our scientists created polyester powder coating resins technology. And that pioneering tradition, we are proud to say, continues today. Combining state of the art Research and Development facilities with profound market insights we create coating solutions that touch people's lives. But which, at no point in their lifecycle, cause unnecessary harm to people or planet. Solutions which add value whilst leaving a lighter footprint in the world.



## Innovation and inspiration

DSM mixes bright science with an inquisitive mind to discover solutions in powder coating resins that will inspire you. Our powder coating resins portfolio is high-performance and cost-effective. Sustainable solutions for a range of extremely challenging applications, from domestic appliances to heavy duty machinery.

But making an excellent product is not the only reason why we are committed to the powder coating industry. By continually searching for innovative ideas, we seek to contribute to shaping the coatings industry as a whole. Of course this means we invest in new systems for new applications, but it also means thinking 'out of the box', beyond the traditional metal surfaces, to explore the potential of other powder coating substrates such as wood and plastic. A journey that ultimately creates aesthetic, functional,

and sustainable solutions to make life even brighter in the future.

DSM supplies a comprehensive product range including:

- Superdurable outdoor resins
- Value engineered resins
- Radiation curing resins
- Low temperature curing resins
- Corrosion protection resins
- Superior flow resins
- Low gloss / dry blend resins
- Powder in mould coating resins.
- Hydroxylated resins for isocyanate crosslinkers
- Carboxylated resins for epoxy / TGIC and other glycidylester crosslinkers
- Carboxylated resins for HAA ( $\beta$ -Hydroxyalkylamide) crosslinkers
- Carboxylated resins for epoxy free indoor applications

## Your global partner

With five manufacturing centers in the Netherlands, Spain, the United States and Greater China we are never far from your business. And, we have marketing, sales and technical service hubs on three continents. So wherever you are, and whatever your market or application, our talented team are there to support you.

To find out more about how our bright science can brighten your life, contact your DSM Account Manager or visit [www.dsm powdercoatingresins.com](http://www.dsm powdercoatingresins.com)



# DSM Powder Coating Resins product portfolio

Application segment

Curing speed

slow cure

fast cure

Uralac® resins for HAA (β-Hydroxyalkylamide) cure				
<b>Industrial</b>		P 541 Veranda™ (96/4)	P 873 (90/10)	
		P 542 Veranda™ (96/4)		
		P 7604 Corres™ (96/4)		
<b>Industrial and architectural</b>	P 879 (95/5)	P 835 (96.5/3.5)		P 3210 EasyCure™ (95/5)
		P 8390 (96.5/3.5)		P 3211 EasyCure™ (95/5)
		P 781 HiTone™ (96.5/3.5)		
		P 812 (95/5)		
		P 815 (95/5)		
<b>Architectural</b>	P 821 (96.5/3.5)	P 831 (97/3)	P 2240 (93/7)	P 3220 EasyCure™ (93/7)
	P 823 (96.5/3.5)	P 833 (97/3)	P 870 (93/7)	
		P 837 (97/3)	P 877 (93/7)	
		P 839 (96/4)	P 880 (90/10)	
		P 782 HiTone™ (96/4)		
		P 838 (96/4)		
		P 841 (95.5/4.5)		
		P 780 HiTone™ (95/5)		
		P 785 HiTone™ (95/5)		
		P 865 (95/5)		
		P 867 (95/5)		
<b>Superdurable</b>	P 883 (97/3)	P 885 (95/5)		P 3230 EasyCure™ (93/7)
	P 800 (96/4)			
	P 6800 (94/6)			

Uralac® resins for PT 910/PT 912 cure				
<b>Industrial and architectural</b>	P 3486 (93/7)	P 3485 (93/7)		
		P 3489 (93/7)		
		P 3490 (93/7)		
<b>Architectural</b>		P 3495 (93/7)		
<b>Superdurable</b>	P 3480 (94/6)			

Uralac® resins for Isocyanate cure				
<b>Industrial and architectural</b>		P 4215 (80/20)	P 1420 (80/20)	
			P 5504 (80/20)	
<b>Superdurable</b>		P 1580 (70/30)		

Application segment

Curing speed

slow cure

fast cure

Uralac® resins for TGIC cure				
<b>Industrial and architectural</b>		P 4800 (95/5)		
<b>Architectural</b>	P 5301 (93/7)	P 6401 (93/7)		P 6701 (93/7)
<b>Superdurable</b>	P 5500 (90/10)			

Uralac® resins for Epoxy resin cure				
<b>Polyester resin / Epoxy resin</b>				
<b>75 / 25</b>			P 4810	
<b>70 / 30</b>	P 6776	P 4235	P 2681	P 3450
	P 770 HiTone™	P 772 HiTone™	P 4135	P 3770
	P 775 HiTone™	P 773 HiTone™	P 5070	P 6777
		P 5071		
		P 5080		
<b>60 / 40</b>	P 6055 (55/45)	P 2610	P 4245	P 5266
	F 5340			
	P 5263	P 4240	F 5345	P 5268
	P 5264			
	P 5267			
	P 760 HiTone™			
<b>50 / 50</b>		P 4127	P 5980	
		P 5051	P 5981	
		P 5127		P 3250

Uralac® resins for low gloss coatings (dry blends)		
<b>HAA (β-Hydroxyalkylamide)</b>	Industrial	P 835 / P 870
	Architectural	P 833 / P 870
		P 831 / P 877
		P 837 / P 877
	Architectural+	P 833 / P 880
Superdurable	P 883 / P 6800	
<b>PT 910</b>	Architectural	P 2240 / P 3485

Uralac® resins for superdurable coatings	
<b>HAA (β-Hydroxyalkylamide)</b>	P 3230
	P 800
	P 883
	P 885
	P 6800
<b>PT 910</b>	P 3480
<b>PUR</b>	P 1580
<b>TGIC</b>	P 5500

Uralac® masterbatches flow agent	
<b>indoor / outdoor</b>	P 3488
<b>indoor / outdoor</b>	P 6188

Uralac® resins for food and drinking water applications	
<b>Hybrid 60/40</b>	F 5340
	F 5345

Uralac® resins for clear coatings (flowagent inside)	
<b>HAA (β-Hydroxyalkylamide)</b>	P 879
<b>PT 910</b>	P 3489
<b>Hybrids 60/40</b>	P 5264

Uralac® resins for low bake/fast cure	
<b>Hybrid 70/30</b>	P 3170
<b>Hybrid 50/50</b>	P 3250
<b>HAA (β-Hydroxyalkylamide)</b>	P 3210
	P 3211
	P 3220
	P 3230

Uracross® systems	
<b>Heat sensitive substrates</b>	P 3125 / P 3307
<b>PIMC</b>	XP 755 / P 3307
	P 752 / P 3307

This overview gives the key properties of a broad selection of resins. The product specifications were correct at the time of printing but may change from time to time. We recommend that you contact your local Sales Office for comprehensive information on our full range of products.

# Uralac® resins for HAA (β-Hydroxyalkylamide) cure

Carboxylated Powder Coating Resins											
Product name	Acid value TM 2400	Viscosity TM 2727	Tg TM 2076	Ratio PE / HAA	Tribo <sup>1)</sup>	Exterior durability	Cure cycle 170°C	Cure cycle 180°C	Cure cycle 200°C		Remarks
Uralac® P 831	18-22	20-60	51	97/3	•	+++		10'			Low level HAA for architectural purpose, can be used for dry blending low gloss with Uralac® P 877
Uralac® P 833	19,5-22,5	36-96	58	97/3	•	+++	15'	10'	6'		Low level HAA for architectural purpose, low gloss in dry blend formulation with Uralac® P 870
Uralac® P 837	19-23	30-70	56	97/3	•	+++	20'	10'	6'		Low gloss in dry blend formulation with Uralac® P 877, gives unique set of coating properties, architectural
Uralac® P 883	18-22	27-57	59	97/3	•	+++++		15'	10'		Superdurable low level HAA, low gloss in dry blend formulation
Uralac® P 781 HiTone™	21-26	40-80	57	96,5/3,5	•	++	15'	10'			Superior flow and high loading capacity, general industry type
Uralac® P 821	20-24	30-70	54	96,5/3,5	•	+++		10'	8'		Low level HAA for architectural purpose, excellent flow, improved powder stability compared to Uralac® P 823
Uralac® P 823	20-24	20-50	52	96,5/3,5	•	+++		10'	8'		Low level HAA for architectural purpose, high degassing limit, excellent flow
Uralac® P 835	20-24	40-80	57	96,5/3,5	•	++	15'	10'	6'		Low level HAA for general purpose, dry blend low gloss in combination with Uralac® P 870
Uralac® P 8390	21-25	40-80	60	96,5/3,5	•	++		10'			Low level HAA for general industrial and architectural purpose, with excellent flow and heat resistance
Uralac® P 541 Veranda™	26-30	17-47	54	96/4	•	+		12'	8'		Epoxy free hybrids alternative, limited outdoor durability, excellent staining resistance
Uralac® P 542 Veranda™	26-30	17-47	54	96/4	•	+		12'	8'		Epoxy free hybrids alternative, superior flow at standard and high loading
Uralac® P 7604 Corres™	26-30	25-65	54	96/4	•	+		15'	10'		Same corrosion protection as pre-treatment or epoxy primer, but with lower costs and better environmental foot print, general industrial type
Uralac® P 782 HiTone™	26-30	22-62	54	96/4	•	+++		12'			Superior flow and high loading capacity, low level crosslinker, architectural type
Uralac® P 800	26-30	21-41	61	96/4	•	+++++		15'	8'		Superdurable type, good water & chemical resistance
Uralac® P 838	24-26	26-48	56	96/4	•	+++	15'	10'	6'		Low level HAA for architectural purposes, good grindability, suitable for dry blend low gloss with Uralac® P 870
Uralac® P 839	23-27	25-55	56	96/4	•	+++		15'			Low level HAA for architectural purpose
Uralac® P 841	29-33	32-62	62	95,5/4,5	•	+++		15'	8'		Architectural type, good flexibility, good flow and storage stability
Uralac® P 3210 EasyCure™	32-38	10-50	53	95/5	•	++	15' 155°C	6'	3'		Low bake, excellent flow, non blooming, architectural performance achievable in light colours
Uralac® P 3211 EasyCure™	34-38	25-65	55	95/5	•	++	15' 155°C	6'	3'		Low bake, excellent flow, non blooming, industrial and semi architectural grade, easy processing
Uralac® P 780 HiTone™	34-38	12-32	56	95/5	•	+++	15'	10'	6'		Superior flow and high loading capacity, architectural type
Uralac® P 785 HiTone™	34-36	10-40	58	95/5	•	+++		10'			High Tg P 780, superior flow and high loading capacity
Uralac® P 812	33-37	15-45	57	95/5	•	++	15'	10'	6'		General purpose with good flexibility in thick layers
Uralac® P 815	33-37	26-46	61	95/5	•	++	15'	10'	6'		General purpose with good exterior durability
Uralac® P 862	33-37	26-46	58	95/5	•	++	15'	10'	6'		General industrial type with improved powder stability, non-blooming at 160°C
Uralac® P 865	33-37	12-32	56	95/5	•	+++	15'	10'	6'		Good flow, architectural type & powder stability
Uralac® P 867	33-37	33-55	64	95/5	•	+++	15'	10'	6'		Architectural type with improved powder stability, anti-drip, high Tg resin, good blanching properties
Uralac® P 879	33-37	13-23	56	95/5	•	++			12'		For clear coatings (flow agent included), excellent flow, high film build
Uralac® P 885	33-37	28-48	50	95/5	•	+++++		15'	10'		Superdurable type, improved flexibility for superdurable grade
Uralac® P 895	32-38	5-45	54	95/5	•	+++		15'	10'		Good flow, improved exterior durability compared to Uralac® P 865
Uralac® P 6800	41-46	25-65	64	94/6		+++++		15'	10'		Superdurable type, low gloss in dry blend formulation with Uralac® P 883
Uralac® P 2240	51-56	75-115	70	93/7	•	+++		10'	6'		Low temperature, fast cure for high Tg coatings, improved humidity resistance
Uralac® P 3220 EasyCure™	51-55	10-50	55	93/7	•	+++	15' 155°C	6'	3'		Low bake, good flow, non blooming, good blanching properties and architectural in all colours
Uralac® P 3230 EasyCure™	50-54	20-30	50	93/7	•	+++++	15' 155°C				Low bake, good flow, non blooming, superdurable type
Uralac® P 870	50-54	30-55	59	93/7	•	+++	10' 170°C 15' 160°C				Low temperature architectural type, low gloss in dry blend formulation with Uralac® P 835 or Uralac® P 833, very low temperature cure (150-160°C)
Uralac® P 877	50-54	30-55	59	93/7	•	+++	10' 170°C 15' 160°C				Low temperature architectural type, gives in combination with Uralac® P 837 in dry blend unique set of properties
Uralac® P 873	69-79	18-38	58	90/10	•	+	10'				Low temperature, fast cure, low gloss in dry blend formulation
Uralac® P 880	72-78	10-18	52	90/10	•	+++		10'	6'		Architectural+ type low gloss dry blend in combination with Uralac® P 800 or Uralac® P 833, superdurable performance in light colours

1) Tribo chargeable when processed under controlled conditions

This overview gives the key properties of a broad selection of resins. The product specifications were correct at the time of printing but may change from time to time. We recommend that you contact your local Sales Office for comprehensive information on our full range of products.

## Uralac® resins for PT 910/PT 912 cure

Carboxylated Powder Coating Resins											
Product name	Acid value TM 2400	Viscosity TM 2727	Tg TM 2076	Ratio PE / PT 910 or PT 912	Tribo <sup>1)</sup>	Exterior durability	Cure cycle 170°C	Cure cycle 180°C	Cure cycle 200°C		Remarks
Uralac® P 3480	20-25	60-130	62	94/6	•	+++++		15'			Superdurable type, good chemical resistance, limited flexibility
Uralac® P 3485	25-30	75-115	66	93/7	•	++	15'	10'	6'		General purpose, architectural and industrial quality
Uralac® P 3486	25-30	75-115	66	93/7	•	++		20'			Slow version of Uralac® P 3485, excellent flow
Uralac® P 3489	25-30	75-115	66	93/7	•	++		10'			For clear coatings (flow agent included), excellent flow, architectural and industrial type
Uralac® P 3490	25-30	75-115	65	93/7	•	++	15'	10'	6'		Good flexibility in time, non blooming at 160°C, industrial type,
Uralac® P 3495	24-28	62-102	66	93/7	•	+++		10'			Architectural Type, improved flexibility in pigmented formulations, for clear coatings in combination with Uralac® P 3488

## Uralac® resins for Isocyanate cure

Hydroxylated Powder Coating Resins											
Product name	Hydroxy value TM 2432	Viscosity TM 2727	Tg TM 2076	Ratio PE/NCO	Tribo <sup>1)</sup>	Exterior durability		Cure cycle 180°C	Cure cycle 200°C		Remarks
Uralac® P 1420	40-50	25-75	53	80/20	•	++		15'	8'		Architectural and industry uretdion type
Uralac® P 4215	38-48	25-65	53	80/20		++			15'		Standard polyurethane resin for industrial purposes
Uralac® P 5504	38-45	35-60	56	80/20		+++			10		Standard architectural uretdion type, excellent flow
Uralac® P 1580	75-95	8-28	51	70/30		+++++			10'		Superdurable type, anti-graffiti, very good flow, suitable for ACE

## Uralac® resins for TGIC cure

Carboxylated Powder Coating Resins											
Product name	Acid value TM 2400	Viscosity TM 2727	Tg TM 2076	Ratio PE / TGIC	Tribo <sup>1)</sup>	Exterior durability	Cure cycle 160°C	Cure cycle 180°C	Cure cycle 200°C		Remarks
Uralac® P 4800	24-28	45-80	65	95/5		+		15'	8'		Good mechanical properties, low level TGIC
Uralac® P 6401	32-38	26-46	58	93/7	•	++		20'	10'		Medium cure rate, very good flow
Uralac® P 6701	32-38	26-46	58	93/7	•	++	15'		6'		Low temperature, fast cure combined with good flow
Uralac® P 5301	32-38	35-55	64	93/7	•	+++			15'		Excellent flow, high Tg
Uralac® P 5500	46-54	37-67	58	90/10		+++++			15'		Superdurable type, high TGIC content, limited flexibility but good adhesion

## Uralac® master batches flow agent

Powder Coating Resins with flow agent											
Product name	Acid value TM 2400	Viscosity TM 2727	Tg TM 2076	Flow additive		Exterior durability					Remarks
Uralac® P 3488	29-37	30-70	68	5%		++					Flow control agent master batch (5wt%) for clear coatings
Uralac® P 6188	29-37	30-70	68	5%		++					Flow control agent master batch (5wt%) for pigmented systems

## Uracross® resins

Product name	Hydroxy value TM 2432	Viscosity TM 2727	Tg TM 2076	Ratio PE / P 3307	Tribo <sup>1)</sup>	Melting traject TM 2076					Remarks
<b>UV cure</b>											
Uracross® P 3125	45-60	5-30	45	83/17	•						Suitable for heat sensitive substrates like: composite wood (MDF) in combination with Uracross® P 3307, good flow
<b>PIMC</b>											
Uracross® P 752		15-65	50	80/20							Low temperature, fast cure, high abrasion resistance, excellent chemical and stain resistance
Uracross® XP 755		30-60	59	various							Suitable for heat sensitive substrates like: SMC, high abrasion resistance, excellent chemical and stain resistance
<b>Crosslinker</b>											
Uracross® P 3307						90-110°C					

1) Tribo chargeable when processed under controlled conditions

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# Uralac® resins for Epoxy resin cure

Carboxylated Powder Coating Resins										
Product name	Acid value TM 2400	Viscosity TM 2727	Tg TM 2076	Ratio PE / Epoxy	TMA-free	Tribo <sup>1)</sup>	Cure cycle 160°C	Cure cycle 180°C	Cure cycle 200°C	Remarks
Uralac® P 4810	24-28	36-71	61	75/25	•	•	15'	12'	6'	Low temperature, low acid value hybrid resin, also suitable for low gloss coatings
Uralac® P 2681	32-38	25-65	62	70/30	•	•		12'		High Tg, very good flow, good price performance resin for general purpose
Uralac® P 3450	34-40	40-70	55	70/30	•		15'	8'	6'	Suitable for matte and structure finish, fast cure rate
Uralac® P 3770	34-38	20-60	51	70/30	•	•	15'	10'	6'	Suitable for structure finish
Uralac® P 4135	32-38	20-40	54	70/30	•	•		10'		Good price performance resin for general purpose, very good flow
Uralac® P 4235	33-37	20-60	51	70/30	•	•		12'		Good price performance resin for general purpose, good appearance
Uralac® P 5070	32-38	22-39	54	70/30	•		17'	10'	6'	Low temperature, fast cure hybrid resin for general purpose, good yellowing properties
Uralac® P 5071	32-38	22-39	54	70/30	•	•	17'	10'	6'	Tribo enhanced version of Uralac® P 5070
Uralac® P 3170 EasyCure™	32-38	15-30	52	70/30	•		10'			Low temperature, fast cure hybrid resin for general purpose, excellent flow and flexibility
Uralac® P 5080	32-38	36-66	62	70/30	•		17'	10'	6'	High Tg, low temperature, fast cure hybrid resin for general purpose
Uralac® P 6776	32-38	17-37	53	70/30	•	•		15'	10'	Medium cure with good flow and yellowing properties
Uralac® P 6777	32-38	17-37	53	70/30	•	•	15'		4'	Low temperature, fast cure with good flow and non-yellowing properties
Uralac® P 770 HiTone™	33-39	15-40	54	70/30	•				10'	Superior flow and high loading capacity, suitable for thin film
Uralac® P 772 HiTone™	33-39	15-40	54	70/30	•		15' 170°C	10'		Superior flow and high loading capacity, suitable for thin film, more reactive version of Uralac® P 770
Uralac® P 773 HiTone™	33-39	15-40	54	70/30	•	•	15' 170°C	10'		Superior flow and high loading capacity, suitable for thin film, tribo enhanced Uralac® P 772
Uralac® P 775 HiTone™	32-38	31-71	60	70/30	•				10'	High Tg version of Uralac® P 770, superior flow and high loading capacity
Uralac® P 2610	47-57	7-23	60	60/40				15'	10'	Excellent chemical resistance, good flow, medium cure rate, good pigment wetting properties
Uralac® P 4240	50-54	25-55	54	60/40	•	•		15'		Good price performance resin for general purpose
Uralac® P 4245	50-54	25-55	54	60/40	•			10'		Good price performance resin for general purpose
Uralac® P 5263	48-58	16-46	55	60/40		•		18'	10'	Good flowing standard hybrid resin
Uralac® P 5264	48-58	16-46	54	60/40		•		18'	10'	For clear coatings (flow agent included), excellent flow
Uralac® P 5266	48-58	13-33	52	60/40		•	15'	12'	5'	Low temperature, fast cure, good flexibility
Uralac® P 5267	48-58	10-50	49	60/40					10'	Slow cure, excellent flow, good pigment wetting properties, external catalyst needed
Uralac® P 5268	48-58	16-46	55	60/40		•	15'	12'	5'	Faster curing Uralac® P 5263 type
Uralac® F 5340	48-58	7-27	50	60/40					10'	Non-technical grade, slow cure version of F 5345, external catalyst needed
Uralac® F 5345	48-58	7-27	50	60/40					10'	Non-technical grade, especially designed for coatings approved for contact with drinking water
Uralac® P 760 HiTone™	48-58	16-46	55	60/40				15'	10'	Superior flow and high loading capacity, suitable for thin film
Uralac® P 765 HiTone™	48-58	10-60	61	60/40				15'	10'	High Tg version of Uralac® P 760, superior flow and high loading capacity
Uralac® P 6055	55-65	22-52	55	55/45					10'	Excellent flow and flexibility, suitable for primer applications
Uralac® P 3250	70-85	7-17	55	50/50			6' 160°C 30' 130°C	4'		Low bake, suitable for low temperature curing systems and heat sensitive substrates
Uralac® P 4127	70-85	7-17	55	50/50			20'		8'	Improved flow for general purpose, medium cure rate, good pigment wetting properties
Uralac® P 5051	70-80	48-78	63	50/50		•		15'	8'	Excellent flow/cure balance, good matting properties
Uralac® P 5127	69-79	18-38	58	50/50			18'	12'	6'	General purpose type, good flow and good storage stability
Uralac® P 5980	69-79	18-38	58	50/50			15'	10'	5'	Low temperature, fast curing Uralac® P 5127 type
Uralac® P 5981	69-79	18-38	58	50/50		•		10'	5'	Tribo enhanced P 5980, fast curing Uralac® P 5127 type

1) Tribo chargeable when processed under controlled conditions

**TM 2400** Acid value, mg KOH necessary to neutralise the acidic constituents in 1g polyester resin

**TM 2432** Mg KOH necessary to neutralise the quantity of acetic acid required to react with the hydroxyl groups in polyester 1g resin

**TM 2727** Viscosity of PCR using the Brookfield CAP 2000+H Viscometer, reported in Pa.s

**TM 2076** Glass transition temperature (°C), determined by differential scanning calorimetry at a heating rate of 5°C/min (DSC Mettler TA 3000)

**TMA-free** free from trimellitic anhydride (TMA)

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## DSM Powder Coating Resins

### Europe (Headquarters)

DSM Powder Coating Resins  
Ceintuurbaan 5  
PO Box 615  
8000 AP Zwolle  
The Netherlands  
Phone: +31 (0)38 750 2530  
Fax: +31 (0)38 456 9500  
E-mail: [powdercoating.resins@dsm.com](mailto:powdercoating.resins@dsm.com)  
[www.dsmpowdercoatingresins.com](http://www.dsmpowdercoatingresins.com)

### North America

DSM Powder Coating Resins, Inc.  
31 Columbia Nitrogen Road  
PO Box 2452  
Augusta, GA 30903  
USA  
Phone int': (+1) 706 849 6706  
Phone toll free: (+1) 800 277 9975  
Fax: (+1) 706 849 6682

### Asia

DSM China Limited, Guangzhou office  
Room 1004-1005,  
Goldlion Digital Network Centre,  
138 Tiyu Dong Lu,  
Guangzhou 510620,  
Greater China  
Phone: (+86) 20 38263700  
Fax: (+86) 20 38263731

DSM China Limited, Shanghai office  
No. 476 Li Bing Road,  
Zhangjiang Hi-Tech Park,  
Pudong New Area, Shanghai, 201203  
Greater China  
Phone: (+86) 21 61418188 or  
Phone: (+86) 21 61418072  
Fax: (+86) 21 61418088 or  
Fax: (+86) 21 61718392

DSM Taipei Ltd Corp.  
3rd Floor  
90 Chung Shan North Road  
Section 6  
Taipei, Taiwan  
Greater China  
Phone: (+886) 2 2833 0001  
Fax: (+886) 2 2831 3095

For more information please contact: [powdercoating.resins@dsm.com](mailto:powdercoating.resins@dsm.com)  
[www.dsmpowdercoatingresins.com](http://www.dsmpowdercoatingresins.com)

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