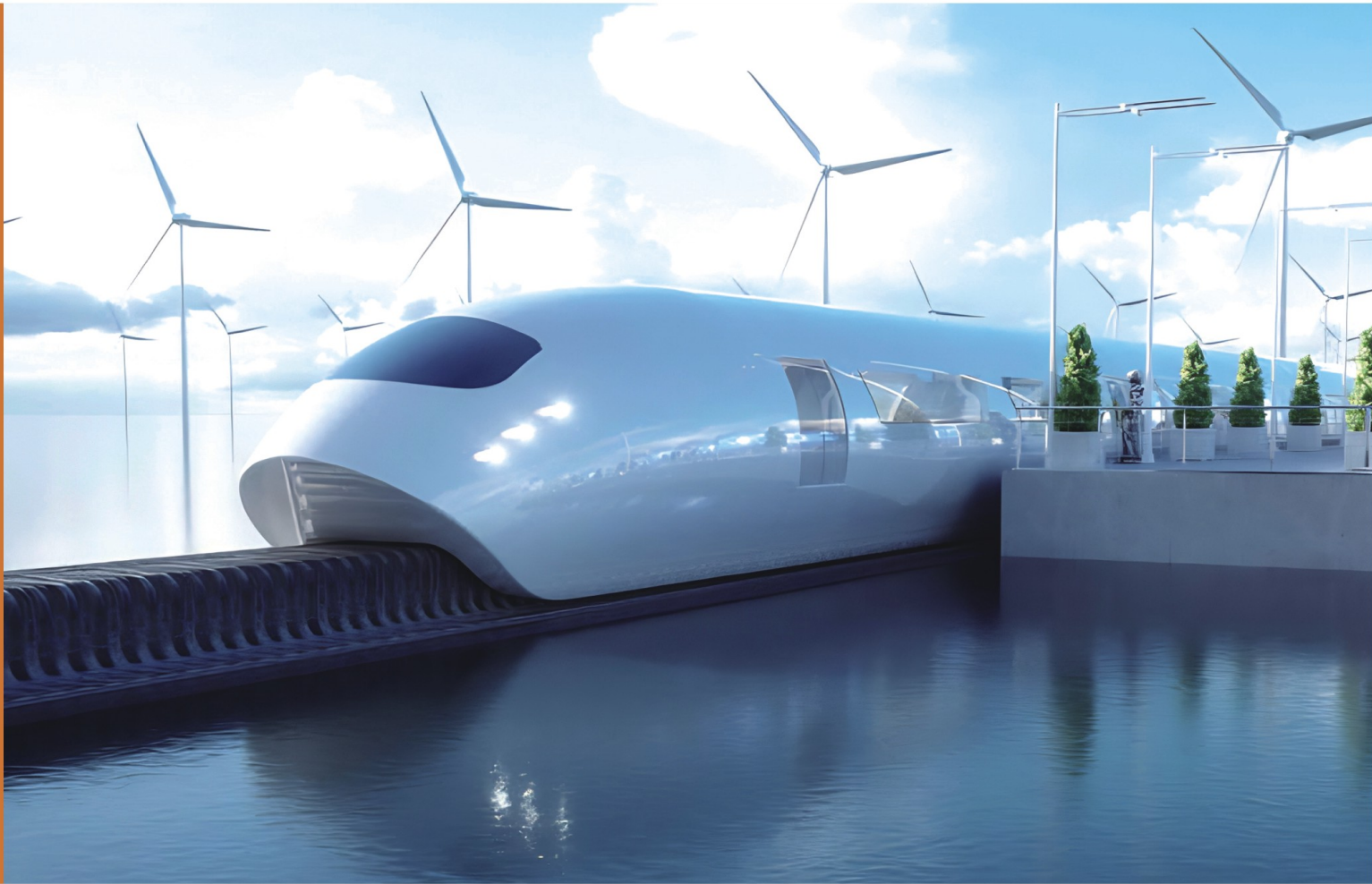


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WANHUA CHEMICAL
GROUP CO., LTD.

万华化学集团股份有限公司

水性工业涂料解决方案
Water-based Industrial Coating Solutions



万华化学集团股份有限公司 表面材料事业部
Wanhua Chemical Group Co., Ltd. Surface Materials Business Group

地址 / Add : 中国山东省烟台市经济技术开发区三亚路3号
No.3, Sanya Road , YEDA, Yantai, Shandong Province, China
电话 / Tel : 400 960 0309 转 5
邮箱 / E-mail : bmcl@whchem.com
网址 / Web : www.whchem.com



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万华化学工业涂料解决方案

Wanhua Chemical Water-based Industrial Coating Solutions

万华化学表面材料事业部致力于环保型材料的研发和生产，并为工业涂料提供系统的解决方案，产品涉及水性聚氨酯 (PUD)、改性聚氨酯 (Modified PU)、水性丙烯酸 (PA)、水性双组分聚氨酯 (2K PU)、水性环氧 (EP)以及助剂等。

Wanhua Chemical Surface Materials Business Unit is devoted to developing and producing environmentally friendly raw materials, and provides systematic solutions for industrial coatings. Our products include PUD, modified PU, PA, 2K and additives.

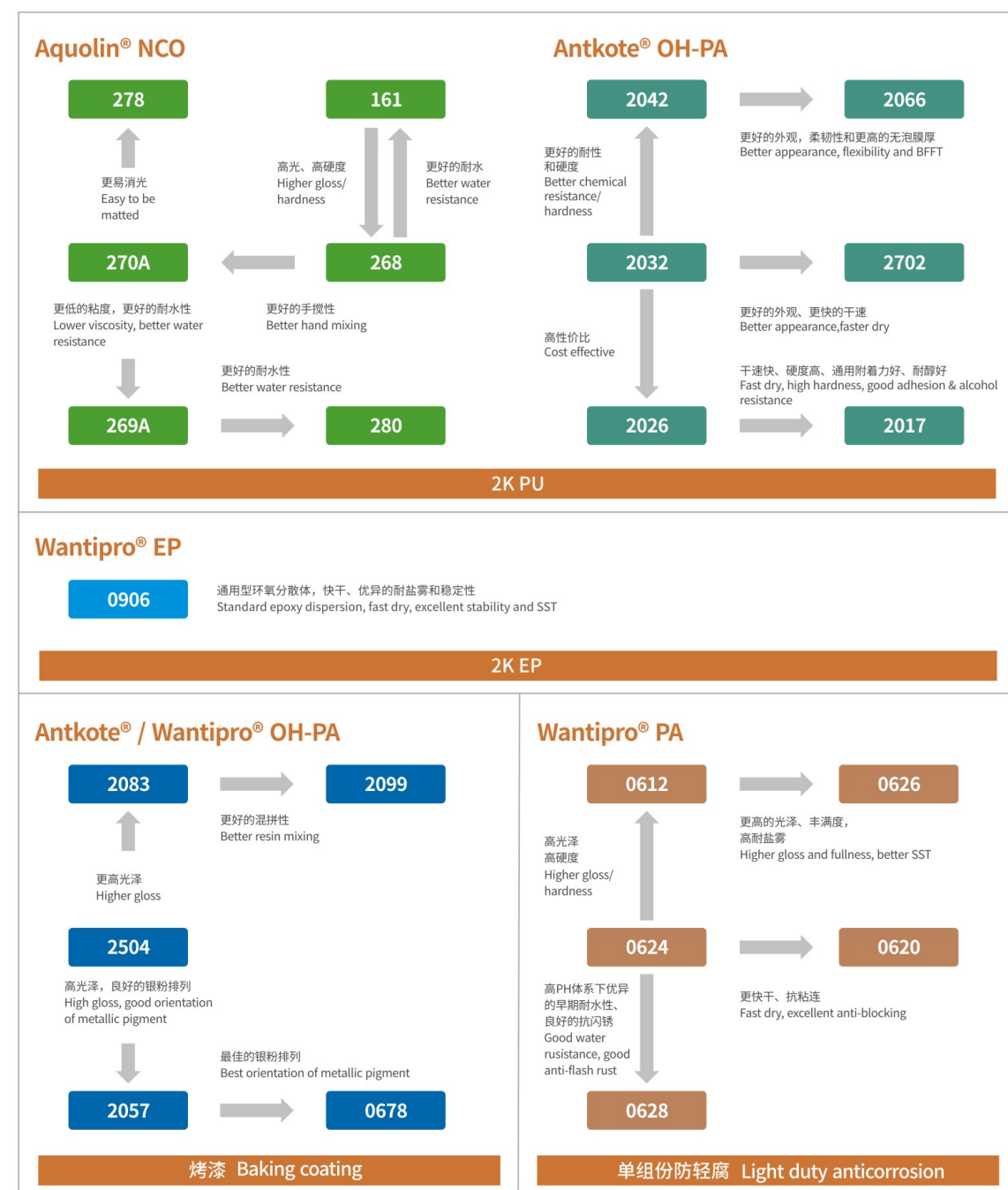
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树脂选用指南

Resin Selection Guide

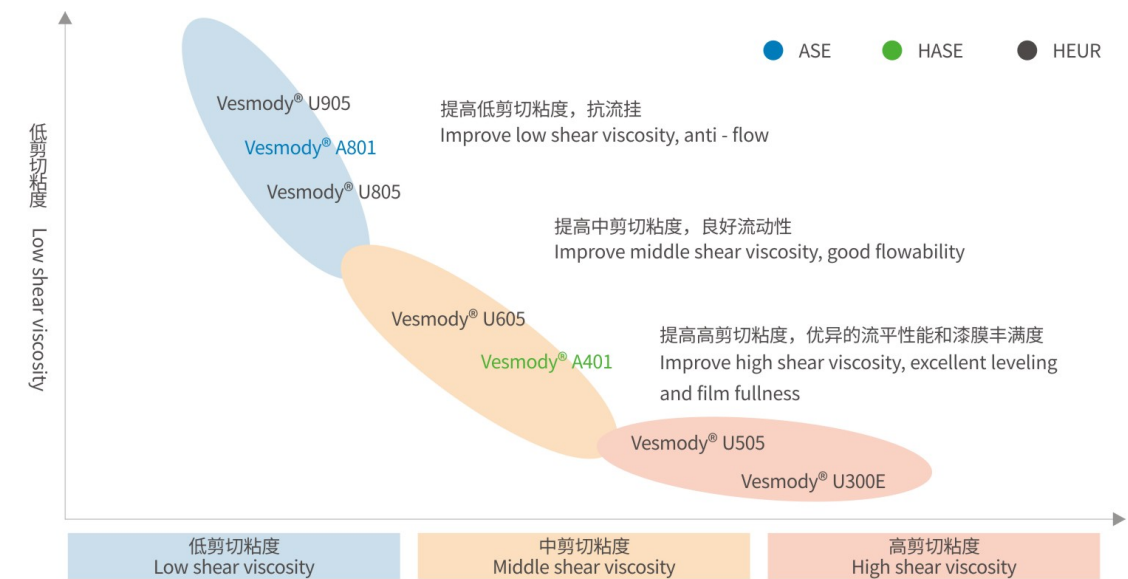


流变助剂选用指南

Rheological Additives Selection Guide

Vesmody® 系列增稠剂是万华化学推出的高性能流变改性剂, 产品不含APEO、不含有机锡; Vesmody® 系列能够广泛应用于水性工业涂料领域, 能够在不同水性体系配方中发挥优良的使用性能, 是新一代绿色环保水性体系的理想选择。

Vesmody® thickeners are high-performance rheology modifiers of Wanhua Chemical Group Co., Ltd. The products are green and environmentally friendly, does not contain APEO or organic tin. Vesmody® thickeners can be widely used in industrial coatings. It is an ideal choice for a new generation green waterborne formula system because of its excellent performance in different waterborne formula systems.



- HEUR可提供漆膜优异的流动性, 极佳的光泽, 良好的耐擦洗和耐盐雾等性能。
- HASE具有高效的增稠效率, 良好的抗飞溅和抗微生物性能。
- ASE提供体系较高的触变性, 对配方适应性强, 在拉毛漆和银粉定向体系表现优异。
- HEUR provides excellent leveling, excellent gloss, good scrub and salt spray resistance.
- HASE has high thickening efficiency, good anti-spatter and antimicrobial properties.
- ASE provides high thixotropy, excellent adaptability to formulation and outstanding performance in stucco paint and aluminium paint.



金属轻防腐涂料

Metal Light Duty Anticorrosion Coatings

Wantipro® 0628

丙烯酸共聚乳液

- 优异的早期耐水性、良好的抗闪锈性能
- 用作底漆，底面合一
- 可刷涂，浸涂和喷涂

该产品适用于轻防腐钢构漆。

Acrylic copolymer emulsion

- Good water resistance、good anti-flash rust
- Suitable for DTM
- Can be applied by brushing, dipping and spraying

This product is mainly used in the field of light anticorrosion coating.

测试项目 Test items		结果 Results
干燥速度(表干/实干)	Touch dry/hard dry	30min/2h
硬度(三菱铅笔)	Hardness (Mitsubishi Pencil)	B
早期耐水(自干1天, 25°C, 天)	Water resistance (25°C, d)	10d

良好的附着力 Good adhesive

		马口铁 Tinplate	碳钢板 Carbon Steel Plate	铝板 Aluminium Plate	冲砂板 Shot Blasting Plate
打磨 Polished		5B	5B	5B	5B
不打磨 Unpolished		5B	5B	4B	-



Wantipro® 0626

丙烯酸共聚乳液

- 优异的光泽和丰满度
- 优异的耐盐雾性能
- 良好的附着力
- 适用于面漆、底面合一

该产品适用于轻防腐钢构漆。

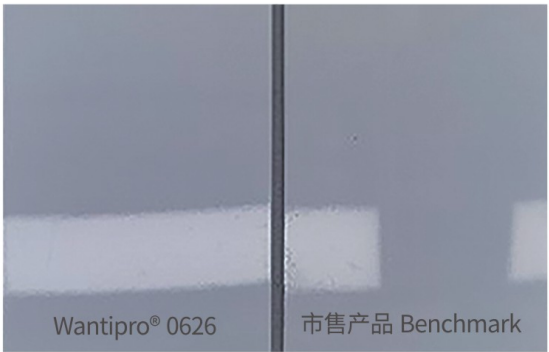
Acrylic copolymer emulsion

- Excellent gloss and film fullness
- Outstanding resistance to salt spray
- Excellent adhesion on various substrates
- Suitable for topcoat and DTM

This product is mainly used in the field of light anticorrosion coating.

测试项目 Test items		结果 Results
干燥速度(表干/实干)	Touch dry/hard dry	30min/2h
光泽(20°/60°, %)	Gloss (20°/60°, %)	92/96
硬度(三菱铅笔)	Hardness (Mitsubishi Pencil)	2B
耐水性(25°C, 天)	Water resistance (25°C, d)	>14

高光白漆 High gloss white paint



光泽(20°/60°, %) 92/96

高光白漆 (P/B≈0.7): 碳钢板, 干膜厚35-40μm

Gloss (20°/60°, %): 92/96

High gloss white paint (P/B≈0.7): carbon steel, DFT 35-40μm

* 干燥条件: 23°C/60% RH, 自干7天

* Drying at 23°C/60% RH for 7 days

耐盐雾240h SST 240h



耐盐雾240h, 单边锈蚀、起泡<2mm

SST 240h, unilateral corrosion or blistering < 2 mm

* 碳钢板, DFT 50±5 μm, 23°C/60% RH 自干7天

* CRS, DFT 50±5 μm, drying at 23°C/60% RH for 7 days



工业烤漆

Industrial Baking Coatings

Wantipro® 0678

羟基丙烯酸乳液

- 极好的触变性
- 优异的银粉定向
- 高燥速度快

推荐用于水性银粉烤漆体系。

Hydroxyfunctional polyacrylic emulsion

- High thixotropy
- Excellent orientation of metallic pigment
- Fast drying

Specifically designed for metallic paint.

Antkote® 2057

羟基丙烯酸分散体

- 高光泽
- 优异的耐水煮性
- 良好的银粉定向
- 良好的触变性

推荐用于高光泽水性银粉烤漆体系。

Hydroxyfunctional polyacrylic dispersion

- High gloss
- Outstanding boiling water resistance
- Good orientation of metallic pigment
- Good thixotropy

Designed for high gloss metallic baking coating system.

Antkote® 2504

羟基丙烯酸分散体

- 优异的柔韧性
- 高光泽，高硬度
- 优异的耐化学品性

适用于各温度段烘烤的通用型水性金属烤漆体系。

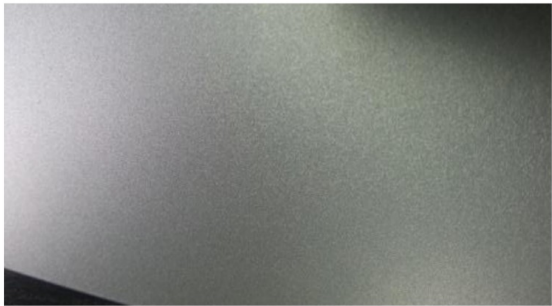
Hydroxyfunctional polyacrylic dispersion

- Excellent flexibility
- High gloss and hardness
- Outstanding chemical resistance

Designed for general industrial baking coatings and suitable for various baking temperature ranges.

测试项目 Test items		结果 Results
硬度 (三菱铅笔)	Hardness (Mitsubishi Pencil)	H-2H
耐冲击 (色漆膜厚25μm)	Impact resistance (DFT 25μm)	50cm
重涂附着力	Recoat adhesion	0级
耐水 (40℃)	Water resistance (40℃)	48h
耐酸 (5%H ₂ SO ₄)	Acid resistance (5%H ₂ SO ₄)	24h
耐碱 (5%NaOH)	Alkali resistance (5%NaOH)	>10d
耐候 (UVB, 1000h)	Weather ability (UVB, 1000h)	△E <1.2

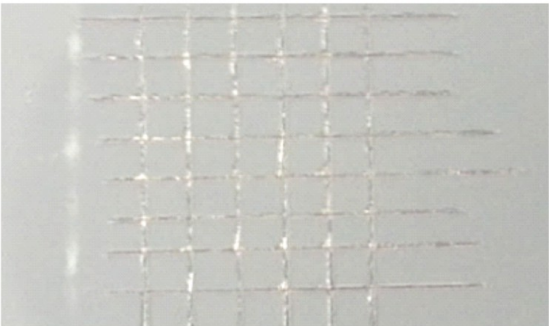
* 白漆，140℃/25min. * White paint, 140℃/25min.



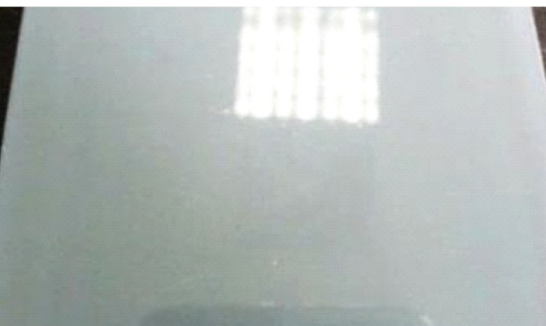
Wantipro® 0678 优异的银粉定向性
Wantipro® 0678 has excellent orientation of aluminum powder



Antkote® 2057 高光泽，良好的银粉定向性，优异的耐化学品性
Antkote® 2057 has high gloss, good orientation of aluminum powder and excellent chemical resistance



重涂2次，附着力0-1级
Recoating twice, good adhesion



醇擦500次，无变化
Good ethanol scrub resistance



工业烤漆

Industrial Baking Coatings

Antkote® 2083

羟基丙烯酸分散体

- 高光泽，流平性好
- 优异的耐水煮性
- 均衡的硬度及柔韧性

推荐用于高光泽、高耐性水性金属烤漆体系。

Hydroxyfunctional polyacrylic dispersion

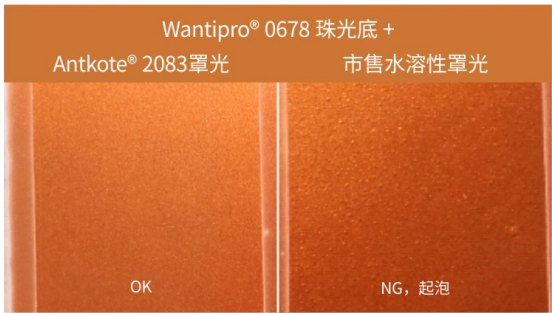
- High gloss, good levelling property
- Excellent boiling water resistance
- Balanced hardness and flexibility

Recommend for high gloss and high performance industrial baking coatings.

测试项目 Test items		结果 Results
光泽 (20°/ 60°) / % (珠光底漆)	Gloss (20°/60°)	93/99
铅笔硬度	Pencil hardness	H
冲击/cm	Impact resistance/cm	>50
附着力	Adhesion	0级
耐乙醇擦拭/次	Ethanol scrub resistance/times	>50
耐NaOH/H ₂ SO ₄ (0.1M)	Acid and alkali resistance (0.1M)	48h OK
耐40°水/配套珠光底	Water resistance (40°C)	96h, OK

* 罩光清漆，140°C/ 25min * Finishing varnish, curing at 140°C/ 25min

优异的耐水性 Good water resistance



40°C水浸泡96h, 通过
Water resistance @40°C/96h, pass

优异的光泽、丰满度 High gloss and film fullness



高光白色面漆 (20°/60°) 85%/94%
High gloss topcoat (20°/60°) 85%/94%

Antkote® 2365

水溶性羟基丙烯酸共聚物

- 优异的耐酒性
- 高光泽，高丰满度
- 出色的耐化学品性能
- 易消光

推荐用于高耐酒性玻璃烤漆体系。

Water soluble hydroxyl acrylic copolymer

- Excellent liquor and boiling water resistance
- High gloss and build
- Good chemical resistance
- Easy matting

Recommended for glass baking coatings.

测试项目 Test items		结果 Results
耐水煮	Boiling water resistance	0.5h
光泽 (60°)	Gloss (60°)	>95%
耐酒 (牛栏山62%vol)	Liquor resistance (Niulanshan 62%vol)	6-8h
耐酸碱 (5%硫酸/5%氢氧化钠)	Resistance to H ₂ SO ₄ /NaOH (5%)	>2d

* 干燥条件: 180°C/20min
* Curing conditions: 180°C/20min



高光实色酒瓶漆
High gloss pigmented topcoat



哑光透明酒瓶漆
Matt varnish



塑胶漆

Plastic Coatings

Urosin® 4626

紫外光固化水性聚氨酯共聚物分散体

- 储存稳定性
- 附着力佳
- 易于消光
- 耐磨性好

适用于UV哑光罩光或UV银粉体系。

Aqueous UV-curable urethane copolymer dispersion

- Storage stability
- Good adhesion to plastic substrate
- Easy to be matte
- Excellent wear resistance

Suitable for UV matte finish or UV metallic paint system.

测试项目 Test items		基材 Substrate	结果 Results
光泽 (60°)	Gloss (60°)	ABS	3.3%
铅笔硬度	Hardness	ABS	H-2H
抗刮伤, 指甲划	Scratch resistance	PC	较少划痕
附着力	Adhesion	PC	5B
		ABS	5B
		PC+ABS	5B
耐水煮 (80°C 30min)	Water resistance (80°C 30min), adhesion	PC	无变化, 5B
耐湿热7d (65°C, 95%RH)	65°C, 95%RH for 7d, adhesion	PC	无变化, 5B
RCA耐磨 (175g), 200次	RCA (175g) for 200 cycles	ABS	有划痕, 未见底
耐醇擦 (1Kg), 200次	Alcohol rub resistance (1Kg) for 200 cycles	ABS	无变化

养护条件：水性UV罩光 (DFT 10-15μm), 室内流平1-2min, 60°C烘烤10-12min, UV光固化 (800-1200MJ/cm²)。
Curing condition: UV topcoat (DFT 10-15μm), RT 1-2min, baking at 60°C for 10-12min, UV curing (800-1200MJ/cm²).

双组分聚氨酯涂料

2K PU Coatings

Antkote® 2066

羟基丙烯酸分散体

- 优异的外观
- 优异的固化剂相容性
- 低VOCs (溶剂<2%)

Antkote® 2702

羟基丙烯酸分散体

- 优异的外观
- 良好的硬度建立
- 优异的固化剂相容性
- 长活化期

适用于轨道交通、工程机械、金属防腐等体系面漆。

Hydroxyfunctional polyacrylic dispersion

- Excellent appearance
- Excellent compatibility with polyisocyanates
- Low VOCs (Solvent content<2%)

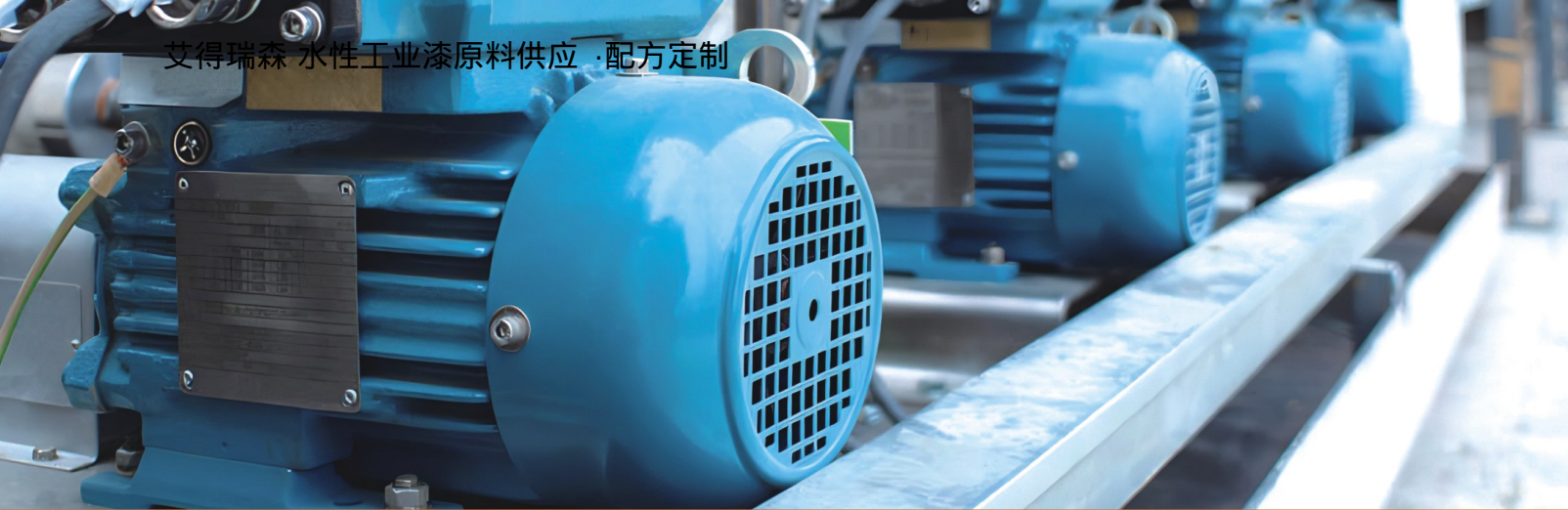
Hydroxyfunctional polyacrylic dispersion

- Excellent appearance.
- Good hardness development.
- Excellent polyisocyanates compatibility.
- Long pot life

Recommended for the topcoat of vehicle, machinery and anticorrosion coating systems



测试项目 Test items		Antkote® 2066	Antkote® 2702
光泽 (20°/60°)	Gloss (20°/60°)	85/94	88/94
表干	Touch dry	50min	30min
硬度	Hardness	H	H
耐酸 (H ₂ SO ₄ , 10%)	Acid resistance (H ₂ SO ₄ , 10%)	>48h	>48h
耐碱 (NaOH, 10%)	Alkali resistance (NaOH, 10%)	>48h	>48h
耐MEK	MEK scrub resistance	50	50



双组分聚氨酯涂料

2K PU Coatings

Antkote® 2026

羟基丙烯酸分散体

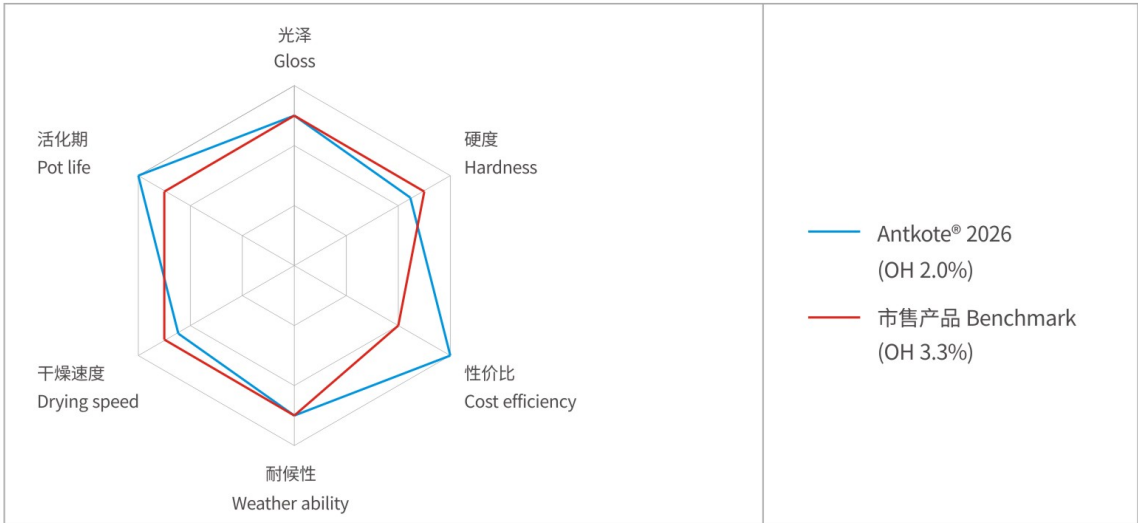
- 低羟值
- 高光泽
- 优异的固化剂相容性
- 活化期长

推荐应用于农用机械、改装车、设备零部件等领域面漆。

Hydroxyfunctional polyacrylic dispersion

- Low OH content
- High gloss
- Excellent polyisocyanates compatibility
- Long pot life

Recommended for topcoat of agricultural machinery, special vehicles and components.



测试项目 Test items		Antkote® 2026	市售产品 Benchmark
光泽 (20°/60°)	Gloss (20°/60°)	84%/93%	80%/91%
表干	Touch dry	40min	40min
硬度	Hardness	H	H
耐酸 (H ₂ SO ₄ , 0.1M)	Acid resistance (H ₂ SO ₄ , 0.1M)	>7d	>7d
耐碱 (NaOH, 0.1M)	Alkali resistance (NaOH, 0.1M)	>3d	1d
活化期 (35°C)	Pot life (35°C)	3h	2h

养护条件：干膜40-50μm，室温15min后80°C，30min

Curing condition: DFT 40-50μm, RT 15min, 80°C, 30min

Antkote® 2032

羟基丙烯酸分散体

- 优异的外观
- 优异的固化剂相容性
- 优异的厚涂性

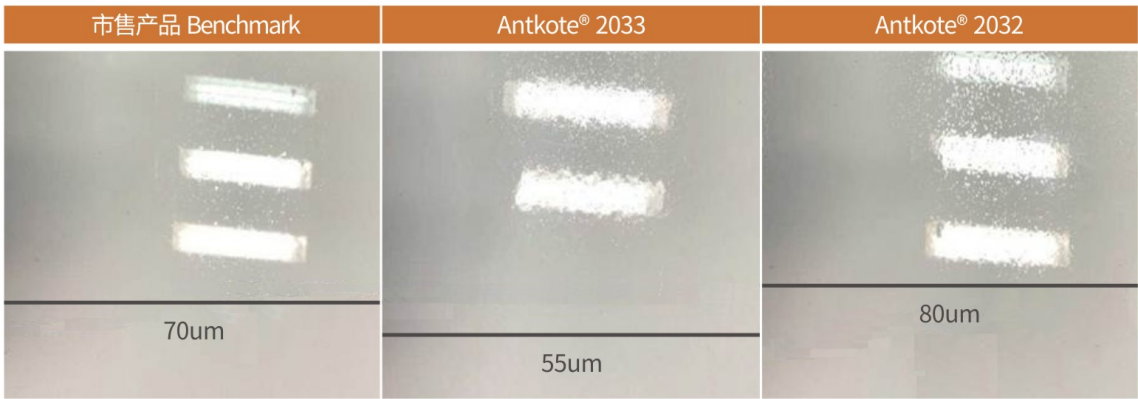
适用于轨道交通、工程机械、金属防腐等体系面漆。

Hydroxy functional polyacrylic dispersion

- Excellent appearance
- Excellent compatibility with polyisocyanates
- Blistering-free in high build coating

Recommended for the topcoat of vehicle, machinery and anticorrosion coating systems

优异的抗厚涂起泡
High BFFT



测试项目 Test items		Antkote® 2032	市售产品 Benchmark
光泽 (20°/60°)	Gloss (20°/60°)	85/93	80/90
表干	Touch dry	27min	38min
硬度	Hardness	H	H
耐酸 (H ₂ SO ₄ , 5%)	Acid resistance (H ₂ SO ₄ , 5%)	7d	7d
耐碱 (NaOH, 5%)	Alkali resistance (NaOH, 5%)	5d	5d
耐水 (40°C)	Water resistance (40°C)	7d	5d
耐候性 (UVB, 1000h)	Weather ability (UVB, 1000h)	1.5	1.5
色差/失光率	△E/Gloss loss	16%	15%

养护条件：干膜40-50μm，室温15min后80°C/30min

Curing condition: DFT 40-50μm, RT 15min, 80°C/30min

产品列表

Product List

产品类别 Product Category	产品名称 Product	固含 Solids (%)	粘度 Viscosity (mPa·s@25°C)	pH	MFFT (°C)	OH% 基于固含 Based on solids	产品说明 Product Description	性能 Properties	体系 Coating			应用 Application						
									单组份 1K	烤漆 Baking Coating	双组份 2K	轻防腐 (C1/C2)	工业防护 (>C3)	机械设备 Machinery	交通运输 Transport	一般工业烤漆 General Baking Coating	塑胶 Plastics	玻璃漆 Glass
丙烯酸树脂 PA	Wantipro® 0612	43±1	10-200	7.0-9.0	37	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	高光泽高硬度，推荐做清漆和面漆。 High hardness and gloss, recommended for varnish and topcoat.	●			●		●				
	Wantipro® 0625	40±1	10-300	7.0-9.0	26	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	耐盐雾性能优异，附着力优异，增稠响应性好。 Excellent salt spray resistance, excellent adhesion to various metals, easy to be thickened.	●			●		●				
	Wantipro® 0616Z	40±1	10-300	7.0-9.0	48	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	优异耐候性、防厚涂开裂、防厚涂起泡和 优异耐水性，推荐集装箱面漆。 Excellent weather ability, anti-cracking, anti-blistering, water resistance, used for container painting.	●			●		●				
	Wantipro® 0620	45±1	10-200	7.0-9.0	/	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	早期耐水优异，抗热粘性优异。 Excellent early water resistance, excellent anti-blocking.	●			●		●				
	Wantipro® 0622	46±1	1500-4500	7.0-9.0	23	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	高光泽，优异的机械稳定性。 High gloss, good mechanical stability.	●			●		●				
	Wantipro® 0624	46±1	500-3000	7.0-9.0	24	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	优异的早期耐水性和离子稳定性。 Outstanding early water resistance and anionic stability.	●			●						
	Wantipro® 0626	48±1	100-1500	7.0-9.0	37	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	高光泽，高丰满度，突出的耐水性，良好的耐盐雾。 High gloss and fullness, outstanding water resistance, good salt spray resistance.	●			●		●				
	Wantipro® 0628	48±1	10-2000	7.0-9.0	24	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	高PH值下优异的早期耐水性，良好的抗闪锈性能。 EGood water resistance, good anti-flash rust.	●			●		●				
	Wantipro® 0630	40±1	10-500	7.0-9.0	35	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	较好的耐盐雾性能，对多种金属基材极好的附着力。 Good salt spray resistance, good adhesive force.	●			●		●				
	Crysol® 6319	40±1	10-200	7.0-9.0	/	/	丙烯酸共聚乳液 Acrylic copolymer emulsion	对多种塑料底材优异的附着力，耐醇擦，硬度。 Excellent adhesion to multiple plastic substrates, alcohol rubbing resistance, good hardness.	●								●	
羟基丙烯酸 树脂 OH-PA	Wantipro® 0678	26±1	<500	6.0-7.5	51	1.2	羟基丙烯酸乳液 Hydroxy acrylic emulsion	银粉漆专用树脂，无需添加增稠剂 即有高触变性，银粉定向极佳。 For silver paint, high thixotropy without adding thickener, excellent orientation of Al powder.		●					●	●	●	
	Antkote® 2017	47±1	50-3000	7.0-9.0	/	1.7	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	干速快、硬度高、通用附着好、耐醇好。 Fast dry, high hardness, good adhesion, good alcohol resistance.			●		●	●	●		●	
	Antkote® 2025	43±1	50-4000	7.0-9.0	/	2.0	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	高光泽，耐候佳，较好的活化期。 High gloss, good weather resistance, long potlife.			●		●	●	●		●	
	Antkote® 2026	43±1	50-4000	7.0-9.0	/	2.0	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	高光泽，优异的耐候性，较好的活化期。 High gloss, excellent weather ability, long pot life.		●	●		●	●	●	●	●	
	Antkote® 2032	45±1	50-3000	7.0-9.0	/	3.3	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	优异的外观和固化剂相容性，长活化期。 Excellent appearance and compatibility with polyisocyanates, long pot life			●		●	●	●			
	Antkote® 2033	46±1	50-1850	7.0-9.0	/	3.3	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	高光泽，优异的耐紫外老化性能和耐化学品性能。 High gloss and hardness, excellent resistance to QUV and good chemical resistance.		●	●		●	●	●	●	●	
	Antkote® 2035	43±1	50-2500	7.0-9.0	/	3.0	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	高光高丰满，高无泡膜厚，优异的耐性。 High gloss and building up, high BFFT and excellent performance.			●		●	●	●		●	
	Antkote® 2702	45±1	50-3000	7.0-9.0	/	3.9	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	良好的硬度建立，长活化期。 Good hardness development , long pot life .			●		●	●	●		●	
	Antkote® 2066	46±1	50-4000	7.0-9.0	/	3.8	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	优异的外观，优异的固化剂相容性。 Excellent appearance, excellent compatibility with polyisocyanates.			●		●	●	●		●	

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产品类别 Product Category	产品名称 Product	固含 Solids (%)	粘度 Viscosity (mPa·s@25°C)	pH	MFFT (°C)	OH% 基于固含 Based on solids	产品说明 Product Description	性能 Properties	体系 Coating			应用 Application						
									单组份 1K	烤漆 Baking Coating	双组份 2K	轻防腐 (C1/C2)	工业防护 (>C3)	机械设备 Machinery	交通运输 Transport	一般工业烤漆 General Baking Coating	塑胶 Plastics	玻璃漆 Glass
羟基丙烯酸 树脂 OH-PA	Antkote® 2042	46±1	50-2500	7.0-9.0	/	4.2	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	更高光泽，高丰满度，更优异的耐化学品性能，配方宽容度高。 High gloss and build, excellent chemical resistance, high hardness.		●	●		●	●	●	●	●	
	Antkote® 2504	44±1	50-4000	7.0-9.0	/	4.2	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	烤漆用树脂，高光泽、高丰满度，良好的耐冲击性能和耐化学品性能。 For baking coating, high gloss and buiding up, good impact and chemical resistance.		●	●					●	●	
	Antkote® 2057	37±1	50-8000	7.0-9.0	/	2.6	羟基丙烯酸分散体 Hydroxyfunctional polyacrylic dispersion	优异的铝粉定向，高光泽，优异的耐水性，良好的耐酒性能。 Excellent orientation of aluminum powder, high thixotropy, high gloss, excellent water resistance.		●				●		●		●
	Antkote® 2083	43±1	50-3000	7.0-9.0	/	3.3	羟基丙烯酸分散体 Hydroxy functional polyacrylic dispersion	与氨基树脂有优异的相容性，高光泽，优异的耐化学品性能和附着力。 Excellent compatibility with amino resin, high gloss, excellent adhesion and chemical resistance.		●						●		
	Antkote® 2365	50±2	5000-15000	7.5-9.5	/	2.8	水溶性羟基丙烯酸共聚物 Water soluble hydroxyl acrylic copolymer	高光泽，高丰满度，突出的耐水煮性能，突出的耐酒性能。 High gloss and building up, boiling water resistance, excellent alkali resistance.		●								●
	Antkote® 2367	50±2	1000-8000	7.5-9.5	/	3.8	水溶性羟基丙烯酸共聚物 Water soluble hydroxyl acrylic copolymer	高光泽，高丰满度，优异的耐化学品性能和耐碱性性能。 High gloss and building up, good adhesion, high hardness, excellent resistance to chemicals, boiling water, liquor, acid and alkali.		●								●
聚氨酯 树脂 Diol/PUD/ PUA	Wantipro® 0355	88±2	1000-6000	/	/	10.6	水性聚氨酯二醇 Aqueous polyurethane diol	提高涂料耐化学品性和降低VOC。 Improve resistance to chemical and reduce VOC.		●	●		●	●	●	●		
	Crysol® 6512	48±1	100-1000	7.5-9.5	/	1.5	羟基聚氨酯分散体 Hydroxy functional PUD	柔感，优异的耐化学品性，耐磨性，耐划伤性佳。 Soft touch, good chemical, abrasive and scratch resistance.			●						●	
	Leasys® 3458	50±1	20-300	7.0-9.0	<5	/	脂肪族聚氨酯分散体 Aliphatic PUD	柔感，优异的耐化学品性，耐磨性，耐划伤性佳。 Soft touch, good chemical, abrasive and scratch resistance.	●								●	
	Crysol® 6120	40±1	10-200	7.0-9.0	40	/	脂肪族聚氨酯分散体 Aliphatic PUD	出色的附着力，优异的柔韧性和耐候性，银粉排列优异。 Outstanding adhesion, flexibility and weather ability, good effect pigments orientation.	●								●	
	Crysol® 6140	40±1	10-500	7.0-9.0	<5	/	改性聚氨酯分散体 Aqueous modified polyurethane dispersion	优异的附着力，优异的柔韧性和耐候性。 Excellent adhesion, flexibility and weather ability.	●								●	
	Crysol® 6130	35±1	20-500	7.0-9.0	18	/	脂肪族聚氨酯分散体 Aliphatic PUD	可剥性，优异的耐水性和耐溶剂性。 Good stripping performance, outstanding water resistance and chemical resistance.	●								●	
	Crysol® 6129	50±1	50-2000	6.0-9.0	/	/	脂肪族聚氨酯分散体 Aliphatic PUD	混批树脂，附着力佳，薄涂附着力稳定。 Auxiliary resin, excellent adhesion, especially on low film build.	●								●	
	Crysol® 6126	40±1	10-200	7.0-9.0	26	/	改性聚氨酯分散体 Aqueous modified polyurethane dispersion	附着力，高光泽，高硬度。 Adhesion, high gloss, high hardness.	●								●	
	Crysol® 4626	40±1	10-500	7.0-9.0	/	/	紫外光固化水性聚氨酯共聚物分散体 Aqueous UV-curable urethane copolymer dispersion	附着力，耐磨性好，易消光。 Adhesion, good wear resistance, easy to be matte.	●								●	

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							单组份 1K	烤漆 Baking Coating	双组份 2K	轻防腐 (C1/C2)	工业防护 (>C3)	机械设备 Machinery	交通运输 Transport	一般工业烤漆 General Baking Coating	塑胶 Plastics	玻璃漆 Glass
异氰酸酯 固化剂 WB Polyisocyanate	Aquolin® 161	Approx 100	2000-4000	18-19	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	优异的耐化学品性能，活化期长。 Good chemical resistance and longer pot-life.			●		●	●	●		●	
	Aquolin® 268	Approx 100	5000-7000	20-21	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	优异的亲水性，更高的硬度，快干， 高光泽，极好的相容性。 Good water dispersibility, higher hardness, fast drying, high gloss, good compatibility with binders.			●		●	●	●		●	
	Aquolin® 269A	Approx 100	1000-3000	18.5±0.5	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	高光、高丰满，优异的耐水性、分散性。 High gloss and building up, excellent water resistance and hand mixing.			●		●	●	●		●	
	Aquolin® 270A	Approx 100	4500-7000	20.5±0.5	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	优异的亲水性、分散性，更高的硬度和抗化学品性， 与单组份体系树脂具有极好的相容性。 Good water dispersibility, hand mixing, higher hardness and chemical resistance. excellent compatibility with binders for 1K.			●		●	●	●		●	
	Aquolin® 278	Approx 100	1500-3500	22-23	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	极其优异的手搅性，可消光。 Outstanding hand mixing, matting.			●		●	●	●		●	
	Aquolin® 280	Approx 100	<1000	19.2-20.2	水可分散异氰酸酯固化剂 Hydrophilically modified, aliphatic polyisocyanate based on HDI	优异的耐水性、活化期、耐候性。 Excellent water resistance, long pot life, excellent weather resistance .			●		●	●	●		●	

产品类别 Product Category	产品名称 Product	固含 Solids (%)	粘度 Viscosity (mPa·s@25°C)	pH	产品说明 Product Description	性能 Properties	高剪切粘度 High shear visco	中剪切粘度 Medium shear visco	低剪切粘度 Low shear visco
增稠剂 Thickener	Vesmodity® U300E	20±1	3000-8000	6.0-10.0	聚氨酯缔合型增稠剂 HEUR	采用万华特有的Unicap™ 技术制备，超低气味，牛顿型流变改性剂。 Newtonian rheology, prepared with specific Unicap™ technology of Wanhua, low odor.	●		
	Vesmodity® U505	40±1	3000-8000	6.0-9.0	聚氨酯缔合型增稠剂 HEUR	有效改善体系的中、高剪切粘度，有效改善涂料的流动性。 Excellent high-medium shear viscosity thickening efficiency, good leveling .	●	●	
	Vesmodity® U605	40±1	33000-43000	5.0-9.0	聚氨酯缔合型增稠剂 HEUR	有效改善体系的中剪切粘度。 Excellent medium-shear viscosity thickening efficiency.		●	
	Vesmodity® U805	25±1	2000-4000	5.0-9.0	聚氨酯缔合型增稠剂 HEUR	产品粘度低，低剪增稠效率高，双组份适用期影响小。 Low viscosity, high thickening efficiency, good pot life performance.			●
	Vesmodity® U905	40±1	33000-43000	5.0-9.0	聚氨酯缔合型增稠剂 HEUR	有效改善体系的低剪切粘度，触变性大。 Excellent low-shear viscosity thickening efficiency, thixotropy.			●
	Vesmodity® A401	30±1	≤100	2.1-4.0	疏水改性碱溶胀型增稠剂 HASE	有效改善体系的中剪切粘度，有效的改善体系的流动性和流平性。 Excellent medium-shear viscosity thickening efficiency, good levelling.		●	
	Vesmodity® A801	29±1	≤100	2.1-4.0	碱溶胀型增稠剂 ASE	有效改善低剪切黏度，提高涂料防沉降效果。 Excellent low-shear viscosity thickening efficiency, good anti-settling.			●