

ALD, Your partner powder coating
爱丽德，你身边的粉末涂料合作伙伴



THE BEAUTY OF TECHNOLOGY HIGH-END COATINGS

爱丽德：科技之美，高端涂料

烟台爱丽德新材料有限公司
Yantai ALD Advanced Materials Co., Ltd.

+86 0535-3107317
office@ald-coatings.com
www.ald-coatings.com

山东省烟台市海阳经济开发区杭州街18号
18 Hangzhou Road, Haiyang Economic Development Zone, Yantai Shandong 265100, China
山东省威海市乳山经济开发区海口路6号
6 Haikou Road, Rushan Economic Development Zone, Weihai Shandong 264500 China



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COMPANY PROFILE

公司简介



爱丽德 你身边的粉末涂料合作伙伴 ALD, YOUR PARTNER POWDER COATING



● 概况

爱丽德是一家以技术创新为主导的高端粉末涂料制造商，聚集了一大批具备多年粉末涂料研发、制造、推广的行业精英，秉承技术为先导、服务的技术服务务立根本的宗旨，为客户提供从粉末涂料产品的研发与制造、客户应用现场的技术服务与支持，到客户定制化的粉末涂装方案的技术咨询的全方位服务。

技术方面，爱丽德技术团队聚集了一大批行业精英，他们具有多年欧美粉末涂料公司的工作经历和技术背景，始终保持公司技术的领先性。

爱丽德邦定(BONDING)金属粉作为公司的主要产品，从设备配置、配方设计到制造工艺掌控均依据国际最高标准，充分满足业界的全方位需求。

● Overview

ALD is an innovation-driven premium powder coating producer, with a mission to lead with technology and a deep root in customer service, ALD provides full range of services in powder coating to our customers, from powder coating R&D and fabrication, coating application technical supports and services, to customized coating solutions consulting services.

ALD is technology focused, and our technical team are the industry leaders of powder coating. They share years of working experience and technical background from international powder coating companies. Their unique insight into the powder coating industry ensures the technological advantage of ALD.

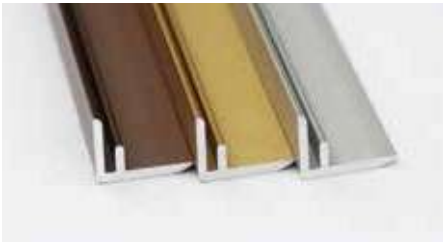
BONDING products are the special focus of ALD. From equipment configuration, formulation design to manufacturing control, ALD sets the highest industry standard to fulfil the various requirements of our customers.

PRODUCT APPLICATION INDUSTRY

产品应用行业



建材
Building Materials



家具
Furniture



家电
Home Point



消费电子
Consumer Electronics



通用工业
General Industrial



健身器材
Fitness Equipment



汽车
Car



货架
Goods Shelves



重型机械
Heavy Machinery



农用工具
Agricultural Tools



铁路建设
Railway Construction



钢结构
Architecture



PRODUCT PORTFOLIO

产品系列说明

● 户外

产品系列	产品概要	典型应用
P05/P05T	纯聚酯粉末涂料	铝型材、机械部件、汽车部件、庭院家具、运动器材、户外防护栏、金属天花、金属装置
F10	户外快速固化系列粉末涂料	彩钢板、机器部件、大型机械、大型制冷设备 电气电子设备
A10/A10T	纯聚酯耐候粉末涂料	铝型材、汽车零部件、金属幕墙、船舶部件
A15/A15T	纯聚酯超耐候粉末涂料	高性能铝型材、金属幕墙及钢结构、露天公用设施金属部件
A20	含氟树脂型超耐候粉末涂料	高性能金属幕墙、高要求公用设施金属部件、高要求工业设施金属部件
A25	氟碳粉末涂料	超高要求氟碳产品应用

● 户内

产品系列	产品概要	典型应用
H10	环氧聚酯混合型常温粉末涂料	金属零部件、超市货架、户内办公设施、散热器、金属玩具、机械部件、电梯部件
H20	环氧聚酯混合型低温固化粉末涂料	户内产品有低温固化要求的金属制品，如特殊要求的机械部件
E30	纯环氧型粉末涂料	实验室设备、汽车零部件、铁管、钢瓶

● 汽车

产品系列	产品概要	典型应用
DC	汽车装饰件用粉	雨刮器、油箱、汽车装饰条、行李架、加踏板等

● Exterior Outdoor

SERIES	QVIEWIEW	APPLICATION
P05/P05T	Pure Polyester Powder Coatings	Aluminum Extrusion/Machinery/Automobile/Outdoor Furniture/Sports Equipments
F10	Exterior Fast-Curing Powder Coatings	Colorband Stee/Machinery/Refrigeration Equipments /Electronics
A10/A10T	Weather-Resistant Pure Polyester Powder Coatings	Aluminum Extrusion/Automobile Parts/Metal Curtain Walls/Ship Parts
A15/A15T	Super Weather-Resistant	High Performance Aluminum Extrusion/Automobile Metal Curtain
	Pure Polyester Powder Coatings	Walls Structural Stee/Ouldoors Metal Facilities
A20	Fluorocarbon Powder Coatings	High Performance Aluminum Extrusions/High Performance
A25	Fluorocarbon Powder Coatings	Ultra High Performance Fluorocarbon Application

● Interior Indoor

SERIES	QVIEWIEW	APPLICATION
H10	Epoxy-polyester Hybrid Powder Coatings	Metal Parts/Indoor Shelving/office Fumiture/Radiators Metal Toys/Machinery/Elevator Part
H20	Epoxy-polyester Hybrid Low Temperature Curing Powder Coatings	Indoor metal products with special low temperature curing requirements
E30	Pure Epoxy Powder Coatings	Primer for Anti-corrosion Coatings 1 Laboratory Equipments 1 Automobile Parts 1 Pipelines 1 Storage Vessels

● Automobile

SERIES	QVIEWIEW	APPLICATION
DC	Powder Coating for Automobile Decorations	Wiper/Fuel Tank/Decorative Strips/Luggage Racks/Pedals

P05/P05T 户外系列粉末涂料



高耐候性粉末涂料
主要应用于户外器材保护



	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	P05平面产品性能	P05砂纹产品性能	
	优异的耐候性 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	机械部件 汽车零部件 庭院家具 运动器材 户外防护栏 金属天花	平面高光 平面半光 平面低光 砂纹外观 桔纹外观	平面光泽：15 ~ 95% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐湿热试验(1000hrs) 耐盐雾试验(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	15 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³ ,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算， 1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

应用指南：

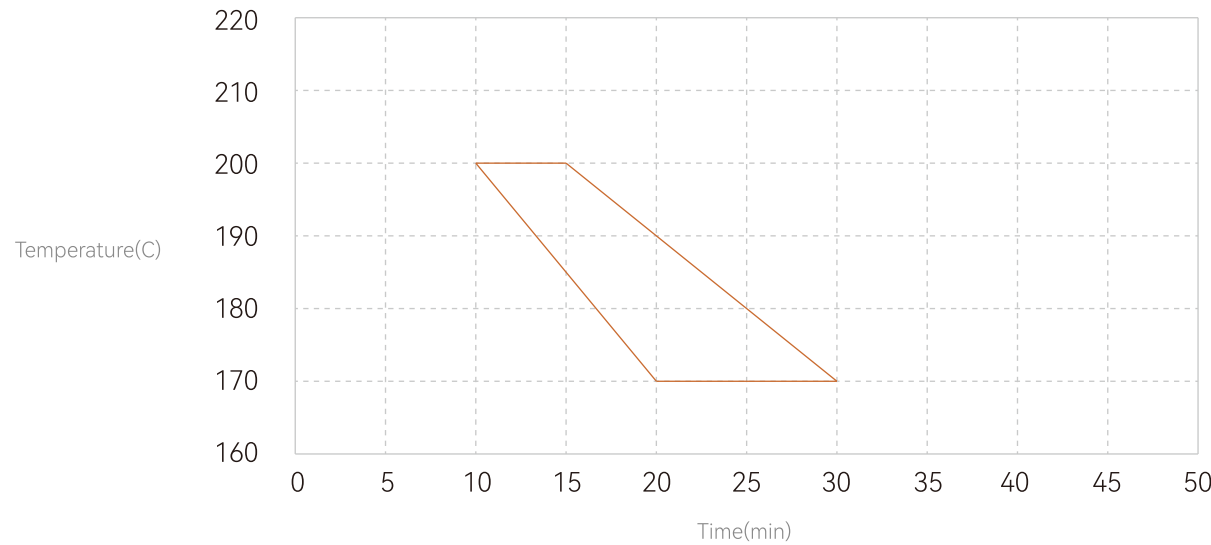
前处理：

- 合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
 - 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
 - 镀锌钢材： 锌系磷化、铬化
 - 不锈钢: 抛丸. 推荐最大锚纹深度25microns

施工方式：

- 电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂， 建议在施工前先进行验证)

固化窗口： 注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。
- 用于船舶或海边直接暴露于盐雾环境下的工件或需长时间重防腐工件，需要使用爱丽德双涂体系，底涂使用E30系列环氧防腐底粉，固化条件为：200℃/5分钟预固化，面涂使用P05系列粉末按200℃/15分钟充分固化，并检查层间的附着力，以达到产品防腐与耐候保证。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

F10 户外快速固化系列粉末涂料

装饰性粉末涂料
主要应用于彩钢板装饰与机械部件防护

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	F10平面产品性能	F10砂纹产品性能	
	优异的装饰性 优异的流平性 200度3分钟快速固化 无VOC排放 绿色环保 节能环保	彩钢板 机器部件 大型机械 大型制冷设备 电气电子设备	平面高光 平面半光 砂纹外观 桔纹外观	平面光泽：50 ~ 85% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐湿热试验(1000hrs) 耐盐雾试验(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	50 ~ 85% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	

- 包 装 规 格：20KG/箱
- 粉 末 比 重：1.2 ~ 1.7g/cm³ ,与产品颜色相关
- 理论喷涂面积：以60微米喷涂膜厚计算，1KG粉末理论喷涂面积为9.8 ~ 13.8m²
- 粉 末 保 质 期：低于25℃干燥环境，保质期为6个月

产品性能参数表：

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特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。

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- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
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- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

应用指南：

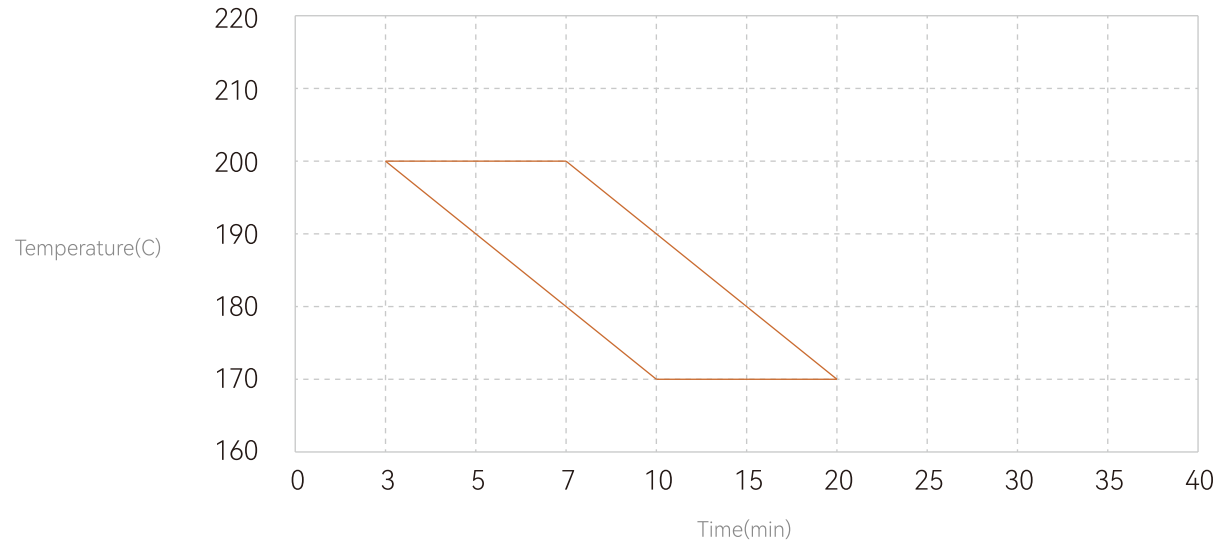
前处理：

- 合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、无铬化前处理
 - 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
 - 镀锌钢材：锌系磷化、铬化
 - 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

- 电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



A10/A10T 系列建筑级粉末涂料

高耐候性粉末涂料
主要应用于金属幕墙与汽车零部件防护

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	A10平面产品性能	A10砂纹产品性能	
	建筑应用10年户外质保 符合AAMA2603 优异的耐候性 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	铝型材 汽车零部件 金属幕墙 船舶部件	平面高光 平面半光 平面低光 砂纹外观	平面光泽：15 ~ 95% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐SO2腐蚀试验（30循环） 耐盐雾试验(1000hrs) 耐人工老化试验（1000hrs） 耐泥浆试验 耐沸水试验 耐冷凝水试验（1000hrs）	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231（Kesternich） ISO 9227 ISO 11341 EN 12206-1 Qualicoat EN ISO 6270-2	15 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于50% 通过 通过 最大渗透小于1mm	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于50% 通过 通过 最大渗透小于1mm	

- 包 装 规 格：20KG/箱
- 粉 末 比 重：1.2 ~ 1.7g/cm³ ,与产品颜色相关
- 理论喷涂面积：以60微米喷涂膜厚计算，1KG粉末理论喷涂面积为9.8 ~ 13.8m²
- 粉 末 保 质 期：低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板，仅作为产品应用指导，实际使用中产品性能还依赖于前处理、施工工艺等因素，测试结果可能存在差异，建议使用前先行验证。

应用指南：

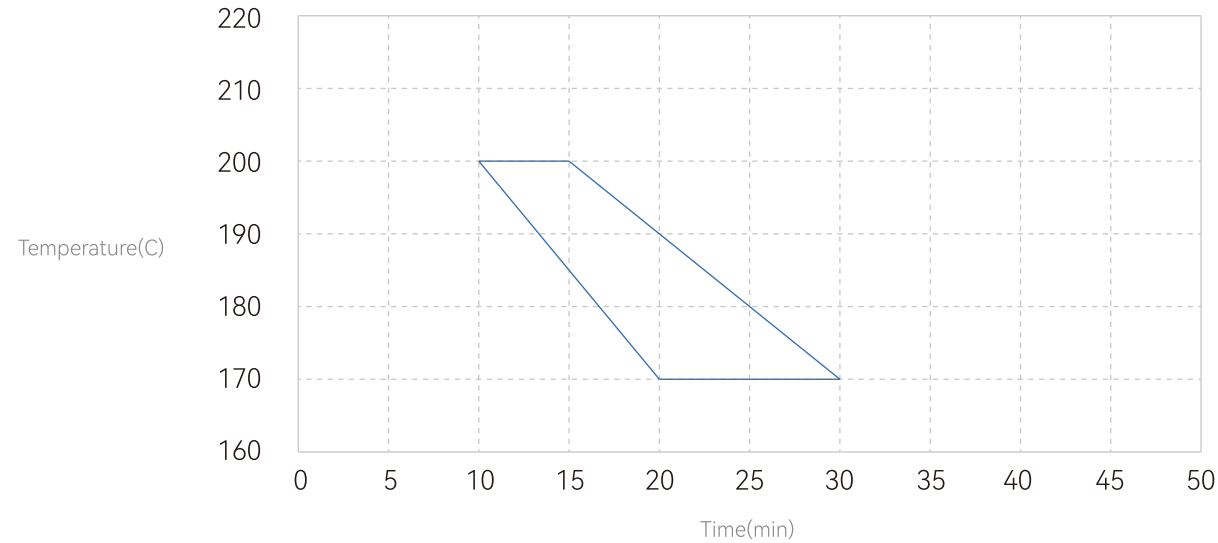
前处理：

合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
- 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
- 镀锌钢材： 锌系磷化、 铬化
- 不锈钢: 抛丸. 推荐最大锚纹深度25microns

施工方式：

电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。
- 用于船舶或海边直接暴露于盐雾环境下的工件或需长时间重防腐工件，需要使用爱丽德双涂体系，底涂使用E30系列环氧防腐底粉，固化条件为：200℃/5分钟预固化，面涂使用A10系列粉末按200℃/12分钟充分固化，并检查层间的附着力，以达到产品防腐与耐候保证。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

A15/A15T 系列建筑级粉末涂料

超耐候性粉末涂料
主要应用于高性能铝材与钢结构

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	A15平面产品性能	A15砂纹产品性能	
	建筑应用15年户外质保 符合AAMA2604 优异的耐候性 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	高性能铝型材 汽车零部件 金属幕墙 钢结构 露天公用设施金属部件	平面高光 平面半光 平面低光 砂纹外观	平面光泽：15 ~ 95% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐SO2腐蚀试验（30循环） 耐盐雾试验(3000hrs) 户外耐久性（5年佛罗里达暴晒） 耐泥浆试验	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231（Kesternich） ISO 9227 AAMA 2604 EN 12206-1	15 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于30% 通过	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于30% 通过	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算，1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板，仅作为产品应用指导，实际使用中产品性能还依赖于前处理、施工工艺等因素，测试结果可能存在差异，建议使用前先行验证。

应用指南：

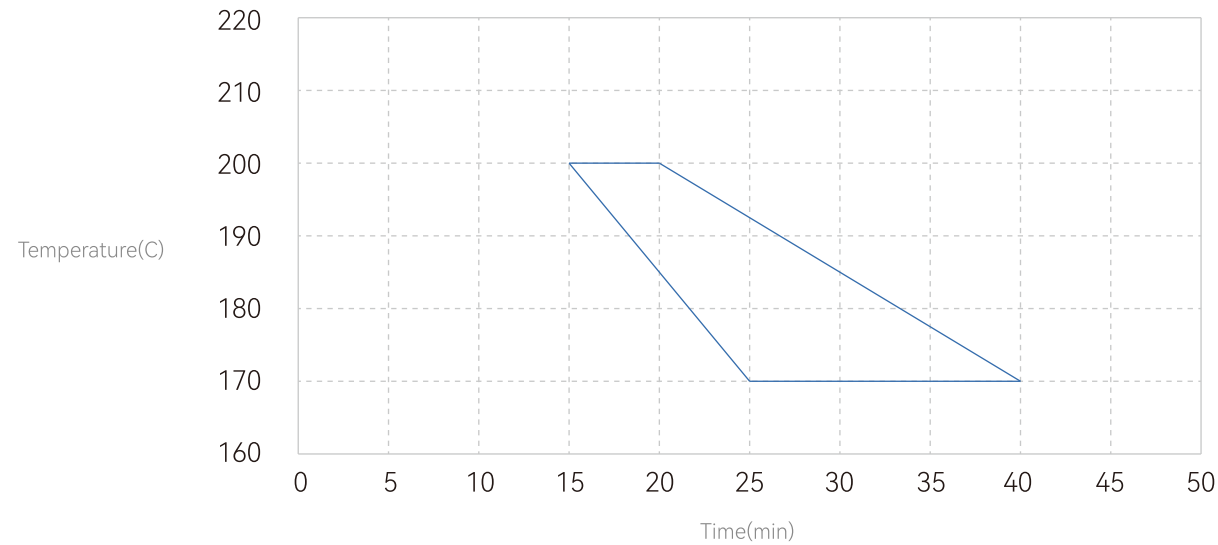
前处理：

合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、无铬化前处理
- 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
- 镀锌钢材： 锌系磷化、铬化
- 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。
- 用于船舶或海边直接暴露于盐雾环境下的工件或需长时间重防腐工件，需要使用爱丽德双涂体系，底涂使用E30系列环氧防腐底粉，固化条件为：200℃/5分钟预固化，面涂使用A15系列粉末按200℃/12分钟充分固化，并检查层间的附着力，以达到产品防腐与耐候保证。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

A20 系列氟碳粉末涂料



高耐候性粉末涂料 主要应用于户外高性能铝材与工业部件保护



	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	A20平面产品性能	A20砂纹产品性能	
	建筑应用20年户外质保 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	(仅限在有资质加工商处使用) 高性能金属幕墙 商用建筑 高性能铝型材 高要求公用设施金属部件	平面半光 平面低光	平面光泽：15 ~ 70%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐SO2腐蚀试验（30循环） 耐盐雾试验(4000hrs) 耐人工加速试验(2000hrs) 耐泥浆试验	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231（Kesternich） ISO 9227 Qualicoat EN 12206-1	30 ~ 70% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于90% 通过	15 ~ 30% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于90% 通过	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算， 1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

应用指南：

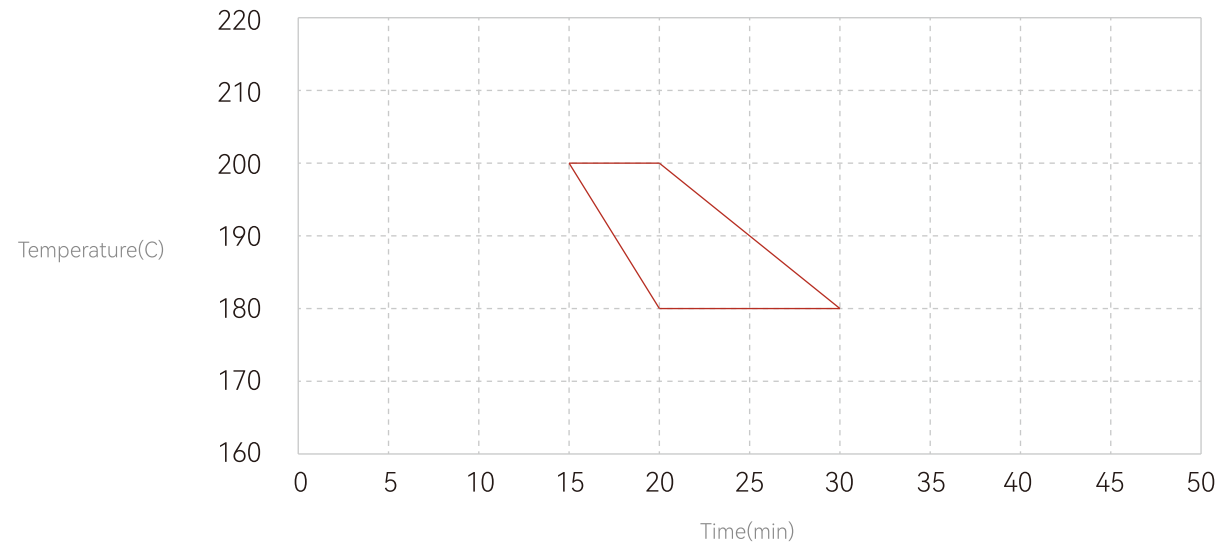
前处理：

合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939
- 无铬化前处理需根据QUALICOAT要求先行验证耐腐蚀性能
- 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化，需采用双涂体系，底涂需使用爱丽德E30防腐底粉

施工方式：

电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。
- 用于船舶或海边直接暴露于盐雾环境下的工件或需长时间重防腐工件，需要使用爱丽德双涂体系，底涂使用E30系列环氧防腐底粉，固化条件为：200℃/5分钟预固化，面涂使用A20系列粉末按200℃/12分钟充分固化，并检查层间的附着力，以达到产品防腐与耐候保证。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

A25 系列氟碳粉末涂料

氟碳树脂超高耐候粉末涂料
主要应用于高性能建筑幕墙和铝材

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	A25半光产品性能	
	建筑应用20年户外质保 符合QUALICOAT3 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	(仅限在有资质加工商处使用) 高性能金属幕墙 商用建筑 高性能铝型材 高要求公用设施金属部件	平面半光	平面光泽：30 ~ 70%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐SO2腐蚀试验（30循环） 耐盐雾试验(4000hrs) 户外耐久性 (10年佛罗里达暴晒) 耐泥浆试验	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231 （Kesternich） ISO 9227 Qualicoat EN 12206-1	30 ~ 70% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 最大气泡和腐蚀小于1mm 最大起泡小于1mm 保光率大于50% 通过	

包 装 规 格： 20KG/箱
粉 末 比 重： 1.2 ~ 1.7g/cm³,与产品颜色相关
理论喷涂面积： 以60微米喷涂膜厚计算，1KG粉末理论喷涂面积为9.8 ~ 13.8m²
粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

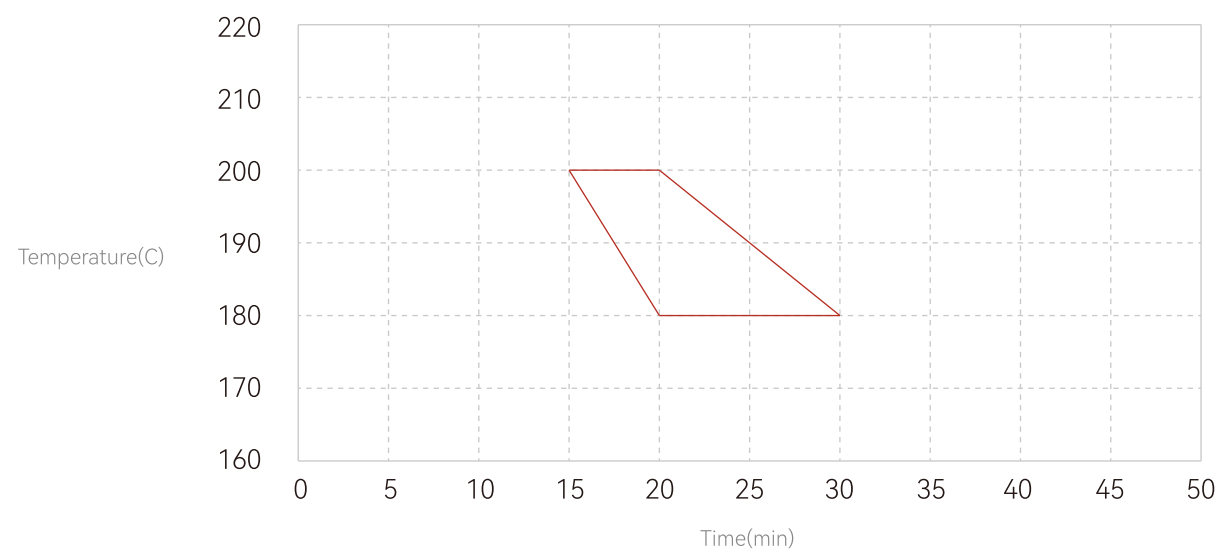
产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

应用指南：

前处理：	施工方式：
合适的前处理包括： - 铝材:黄色铬化根据 DIN 50939 - 无铬化前处理需根据QUALICOAT要求先行验证耐腐蚀性能 - 钢材：喷砂/抛丸(SA 2.5)、铁系磷化或锌系磷化，需采用双涂体系，底涂需使用爱丽德E30防腐底粉	电晕静电喷涂 摩擦静电喷涂 (注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。
- 用于船舶或海边直接暴露于盐雾环境下的工件或需长时间重防腐工件，需要使用爱丽德双涂体系，底涂使用E30系列环氧防腐底粉，固化条件为：200℃/5分钟预固化，面涂使用A25系列粉末按200℃/12分钟充分固化，并检查层间的附着力，以达到产品防腐与耐候保证。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

H10 户内混合型系列粉末涂料



装饰性粉末涂料
主要应用于户内家具和健身器材防护



	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	H10平面产品性能	H10砂纹产品性能	
	优异的装饰性 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	户内办公设施 机器部件 金属玩具 健身器材 电气电子设备 家电家具	平面高光 平面半光 平面低光 砂纹外观 桔纹外观	平面光泽：15 ~ 95% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐湿热试验(1000hrs) 耐盐雾试验(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	15 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³ ,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算， 1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

应用指南：

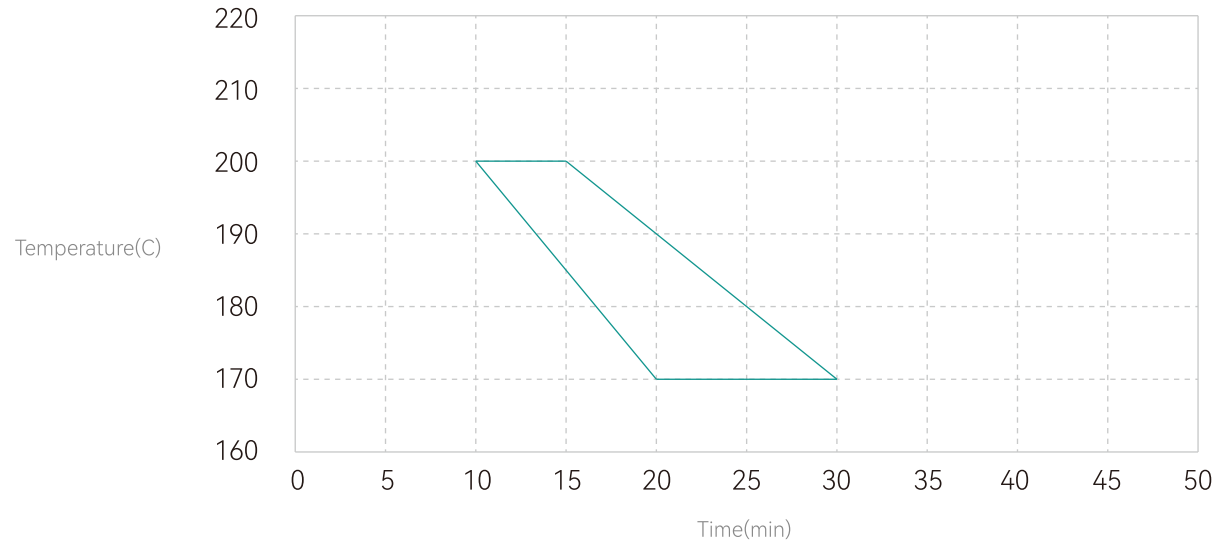
前处理：

合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
- 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
- 镀锌钢材： 锌系磷化、 铬化
- 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂， 建议在施工前先进行验证)

固化窗口：注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

H20 户内混合型系列粉末涂料



快速固化装饰性粉末涂料 主要应用于户内办公设施和电子电器



	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	H20平面产品性能	H20砂纹产品性能	
	优异的装饰性 优异的流平性 优异的储存稳定性 无VOC排放 绿色环保	户内办公设施 机器部件 金属玩具 健身器材 电气电子设备 家电家具	平面高光 平面半光 平面低光 砂纹外观 桔纹外观	平面光泽：15 ~ 95% 砂纹外观：3 ~ 15%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐湿热试验(1000hrs) 耐盐雾试验(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	19 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	3 ~ 15% 70 ~ 90微米 0级 ≥85 ≥5mm ≤5mm 正反冲通过 最大气泡小于1mm 最大起泡小于1mm	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³ ,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算， 1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为12个月

应用指南：

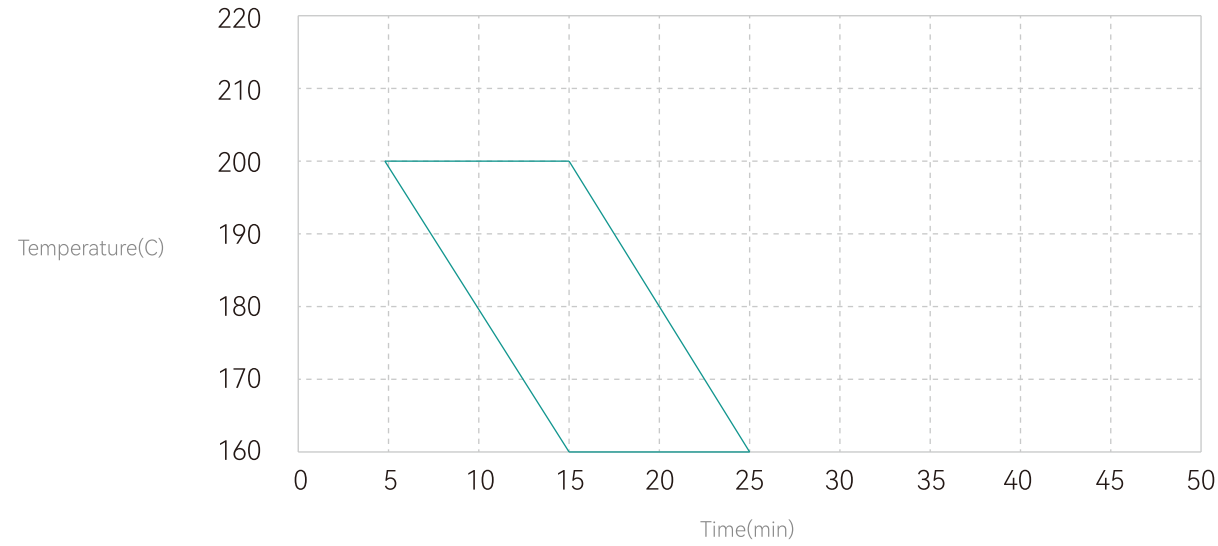
前处理：

- 合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
 - 钢材：喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
 - 镀锌钢材： 锌系磷化、 铬化
 - 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

- 电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂，建议在施工前先进行验证)

固化窗口：注意温度为工件温度



产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品， 如润滑蜡、 钻孔切削润滑剂等， 必须为ph值呈中性， 且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力， 涂膜厚度至少要在75µm以上， 但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。

金属粉末使用注意事项：

- 颜色控制： 即使采用最严格的颜色控制标准， 也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异， 建议提前与标准样板比较， 批量使用前， 用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异， 建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定， 建议固定工艺参数： 如固定电压、 空气输送量、 喷枪到工件的距离、 固定的回收粉添加比例等。
- 回收粉添加比例： 为了保证涂膜金属粉效果和颜色的一致性， 新粉末使用比例需根据现场实际情况确定， 且不低于70%。回收粉需经过筛后连续加入， 由于回收粉无法保证金属效果均匀稳定性， 所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择： 通常喷枪有手动喷枪、 自动喷枪； 按带电方式分为静电喷枪和摩擦静电喷枪， 素色粉末可以使用静电枪和摩擦枪喷涂， 金属粉末通常只能用静电枪喷涂， 只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同， 金属粒子不能都被吸附到喷涂工件上， 这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度， 以避免出现烧结， 导致喷枪短路。
- 接地要求： 使用金属粉末涂料时， 粉末喷涂系统和喷涂工件接地必须良好， 以保证金属颜色和效果的一致性涂层清洁： 建筑涂层需要两年至少清洗一次。对于纹理效果涂层， 由于表面粗糙， 不易清洁， 只能用清水清洗或弱碱溶液清洗， 并用无纺布擦拭， 不能使用有摩擦和刮擦的工具擦洗， 也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗， 即使是短期使用有机溶剂， 如硝基稀释剂或丙酮， 碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。
- 涂层清洁： 建筑涂层需要两年至少清洗一次。对于纹理效果涂层， 由于表面粗糙， 不易清洁， 只能用清水清洗或弱碱溶液清洗， 并用无纺布擦拭， 不能使用有摩擦和刮擦的工具擦洗， 也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗， 即使是短期使用有机溶剂， 如硝基稀释剂或丙酮， 碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备， 使用前请先阅读爱丽德产品安全数据表MSDS。

E30 双涂层重防腐系列底涂粉末涂料

耐腐蚀粉末涂料
主要应用于底涂耐腐蚀防护

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	E30 底涂+A25 面涂，双涂产品性能	
	优异的耐腐蚀性 优异的耐化学品性 优异的储存稳定性 优异的边角覆盖性 无 VOC 排放 绿色环保	海边建筑防腐底涂 汽车防腐部件 钢结构防腐底涂	平面高光 平面半光	平面光泽：60 ~ 90%		膜厚 附着力（2mm） 耐湿热试验(1000hrs) 耐盐雾试验(1000hrs) 耐腐蚀试验	ISO 2360 ISO 2409 ISO 6270-1 ISO 9227 ISO 12944	160 ~ 180 微米 0级 最大气泡小于1mm 最大膜下腐蚀小于 1mm 符合 C5-M 腐蚀等级	

包 装 规 格： 20KG/箱
粉 末 比 重： 1.2 ~ 1.7g/cm³ ,与产品颜色相关
理论喷涂面积： 以60微米喷涂膜厚计算， 1KG粉末理论喷涂面积为9.8 ~ 13.8m²
粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

应用指南：

前处理：

合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
- 钢材： 喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
- 镀锌钢材： 锌系磷化、 铬化
- 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂， 建议在施工前先行验证)

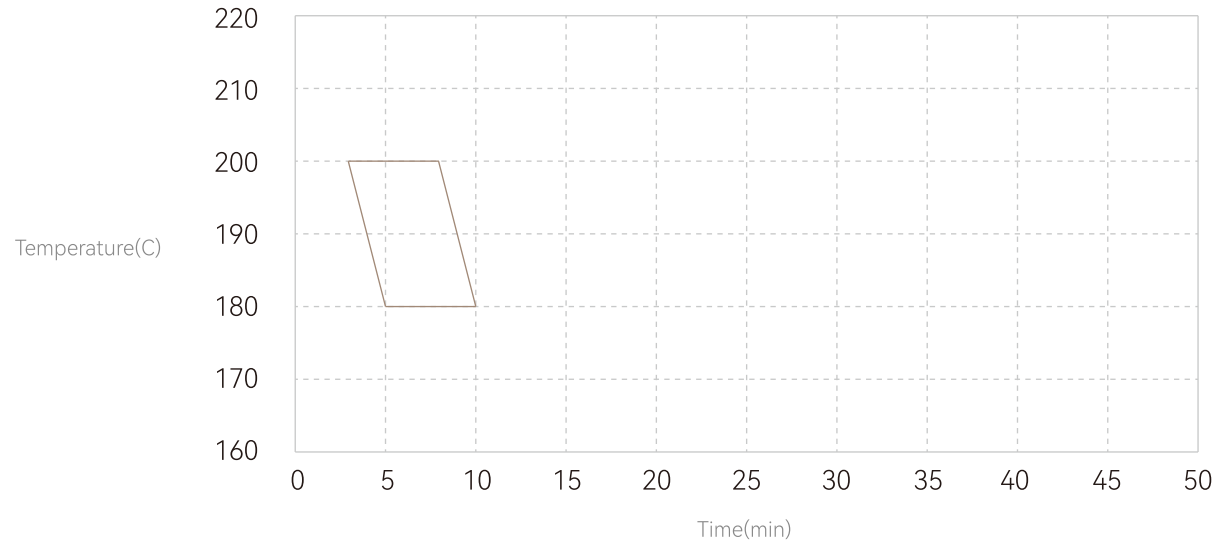
特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品， 如润滑蜡、 钻孔切削润滑剂等， 必须为ph值呈中性， 且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。

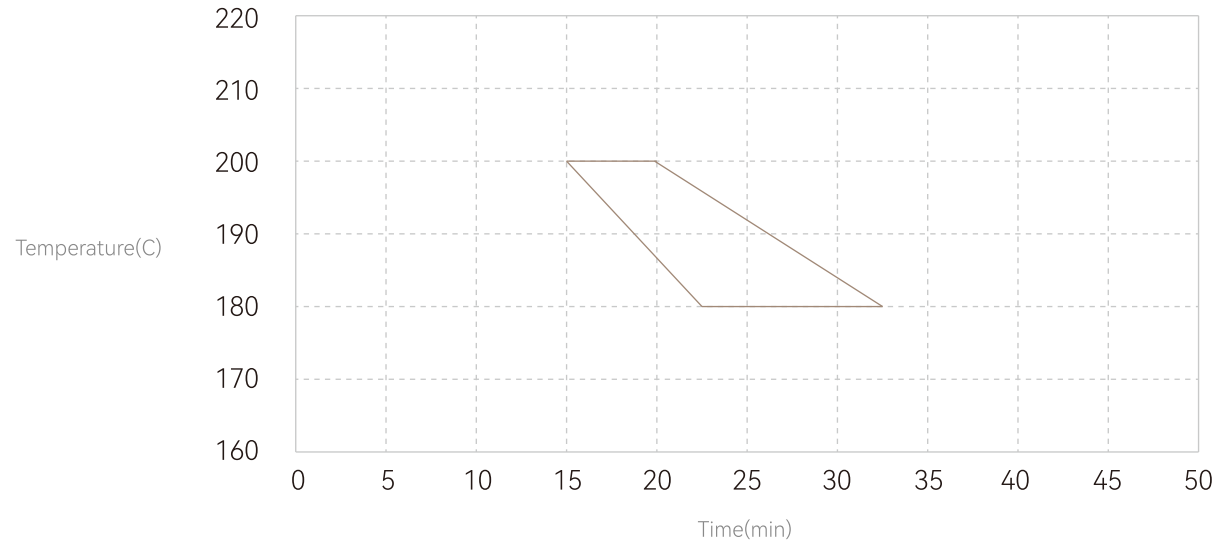
安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备， 使用前请先阅读爱丽德产品安全数据表MSDS。

底涂固化窗口： 注意温度为底涂预固化工件温度



面涂固化窗口： 注意温度为面涂 A25 系列固化工件温度



DC 系列汽车装饰性粉末涂料

聚酯树脂体系高耐候粉末涂料
主要应用于汽车 B 柱、汽车行李架、汽车装饰部件

	产品特性	典型应用	涂膜外观	涂膜光泽		测试项目	测试方法	A10平面产品性能	
	优异的装饰性 优异的耐候性 优异的流平性 无 VOC 排放 绿色环保	汽车 B 柱 汽车行李架 汽车零部件	平面低光 平面半光	平面光泽：15 ~ 70%		光泽(60°) 膜厚 附着力（1mm） 压痕硬度 杯突 轴棒弯曲 冲击（20inch.lbs） 耐石击性能 耐盐雾试验(1000hrs) 耐湿热试验(1000hrs) 加速老化测试（1000hrs）	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ASTM D-3170 ISO 9227 ISO 6270-1 ISO 11341	15 ~ 95% 60 ~ 80微米 0级 ≥85 ≥5mm ≤5mm 通过，无涂膜脱落 5A or 4B 最大起泡小于 1mm 最大起泡小于 1mm 保光率大于 70%	

包 装 规 格： 20KG/箱

粉 末 比 重： 1.2 ~ 1.7g/cm³ ,与产品颜色相关

理论喷涂面积： 以60微米喷涂膜厚计算，1KG粉末理论喷涂面积为9.8 ~ 13.8m²

粉 末 保 质 期： 低于25℃干燥环境，保质期为6个月

产品性能参数表：

以上测试数据基于0.7MM黄色铬化前处理铝板， 仅作为产品应用指导， 实际使用中产品性能还依赖于前处理、施工工艺等因素， 测试结果可能存在差异， 建议使用前先行验证。

应用指南：

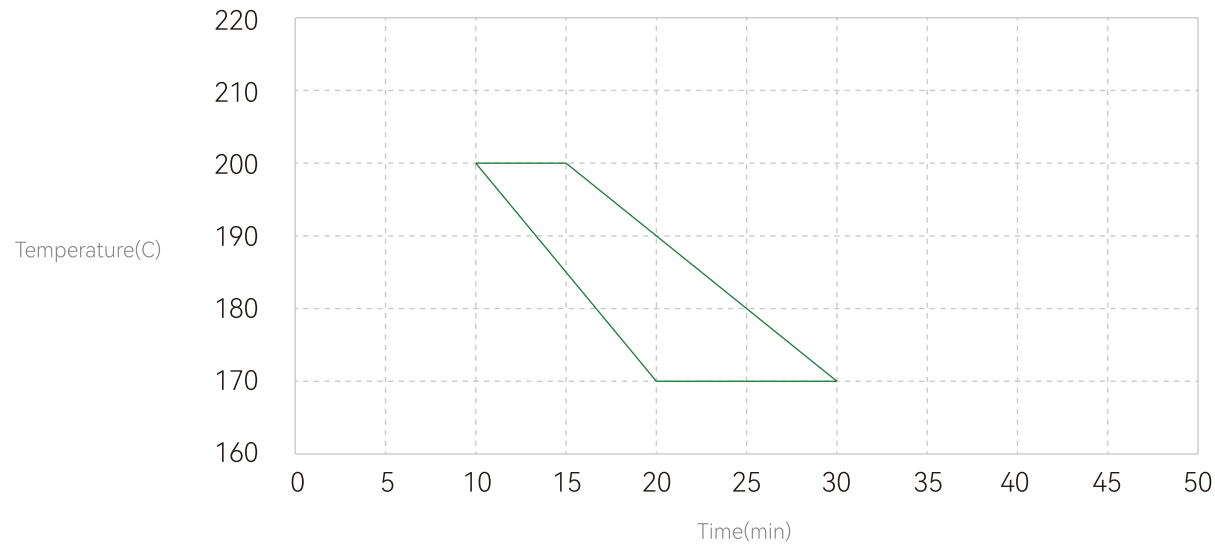
前处理：

- 合适的前处理包括：
- 铝材:黄色铬化根据 DIN 50939、绿色铬化、 无铬化前处理
 - 钢材： 喷砂/抛丸（SA 2.5）、铁系磷化或锌系磷化
 - 镀锌钢材： 锌系磷化、 铬化
 - 不锈钢: 抛丸, 推荐最大锚纹深度25microns

施工方式：

- 电晕静电喷涂
摩擦静电喷涂
(注意金属粉不建议使用摩擦枪喷涂， 建议在施工前先进行验证)

固化窗口： 注意温度为工件温度



特殊用途注意事项：

- 后折弯应用前需检测产品的弯曲性能。涂膜表面小的裂痕可导致腐蚀。
- 涂膜连接点密封胶以及其它同被涂保护表面接触的任何辅助产品，如润滑蜡、钻孔切削润滑剂等，必须为ph值呈中性，且不能影响涂膜性能。
- 建议回收粉添加比例需先进行验证。
- 为了达到足够的遮盖力，涂膜厚度至少要在75µm以上，但不要超过110µm。鲜亮颜色可能需要更高的涂膜厚度。

金属粉末使用注意事项：

- 颜色控制：即使采用最严格的颜色控制标准，也无法避免不同批次间颜色和效果的细微差异。为了避免可能的颜色和效果差异，建议提前与标准样板比较，批量使用前，用现场喷涂设备进行线试确认。因设备系统造成颜色或效果差异，建议使用上下限偏差样板进行控制。为了保证批次间颜色及效果稳定，建议固定工艺参数：如固定电压、空气输送量、喷枪到工件的距离、固定的回收粉添加比例等。
- 回收粉添加比例：为了保证涂膜金属粉效果和颜色的一致性，新粉末使用比例需根据现场实际情况确定，且不低于70%。回收粉需经过筛后连续加入，由于回收粉无法保证金属效果均匀稳定性，所以不能超量添加。建议回收粉使用前先做回收比例金属颜色及效果验证。
- 喷枪选择：通常喷枪有手动喷枪、自动喷枪；按带电方式分为静电喷枪和摩擦静电喷枪，素色粉末可以使用静电枪和摩擦枪喷涂，金属粉末通常只能用静电枪喷涂，只有少数金属粉末涂料可采用摩擦静电喷涂。施工之前必须验证喷涂方式是否适用。由于粉末颗粒和金属颗粒的带电能力不同，金属粒子不能都被吸附到喷涂工件上，这就会导致颜色或效果出现差异。通常金属粉末施工方式不建议将静电喷涂转换到摩擦静电喷涂。使用金属粉末涂料要特别注意系统清洁程度，以避免出现烧结，导致喷枪短路。
- 接地要求：使用金属粉末涂料时，粉末喷涂系统和喷涂工件接地必须良好，以保证金属颜色和效果的一致性。
- 涂层清洁：建筑涂层需要两年至少清洗一次。对于纹理效果涂层，由于表面粗糙，不易清洁，只能用清水清洗或弱碱溶液清洗，并用无纺布擦拭，不能使用有摩擦和刮擦的工具擦洗，也不能用高压清洗设备。清洗后需用清水漂洗。不能使用有机溶剂清洗，即使是短期使用有机溶剂，如硝基稀释剂或丙酮，碱性和酸性以及磨料清洗剂都可在涂层表面造成不可逆转的破坏。

安全保护措施：

请根据劳动职业防护要求佩戴相关劳动防护设备，使用前请先阅读爱丽德产品安全数据表MSDS。

P05/P05T exterior application powder coatings



High weather resistance powder coating
mainly used for outdoor equipment protection



	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	P05 smooth finish	P05 texture finish	
	Good weather resistance	Machine parts	Smooth glossy	Smooth surface:15~85%		Gloss(60°)	ISO 2813	15~85 unit	3~15 unit	
	Good flow	Auto parts	Smooth semi-gloss	Texture :3~15%		Film thickness	ISO 2360	60~80 microns	70~90 microns	
	Good storage stability	Garden furniture	Smooth matt			Adhesion(1mm)	ISO 2409	0 level	0 level	
	Zero VOC	Fitness equipment	Texture			Impression hardness	ISO 2815	≥85	≥85	
	Green and environment friendly	Outdoor fence	Rough texture			Cupping	ISO 1520	≥5mm	≥5mm	
		Metal ceiling				Mandrel bend	ISO 1519	≤5mm	≤5mm	
						Impact(20inch.lbs)	ASTM D-2794	Direct and reverse pass	Direct and reverse pass	
						Humidity(1000hrs)	ISO 6270-1	Maximum blistering less than 1mm	Maximum blistering less than 1mm	
						Salt spray(1000hrs)	ISO 9227	Maximum blistering less than 1mm	Maximum blistering less than 1mm	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³ ,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

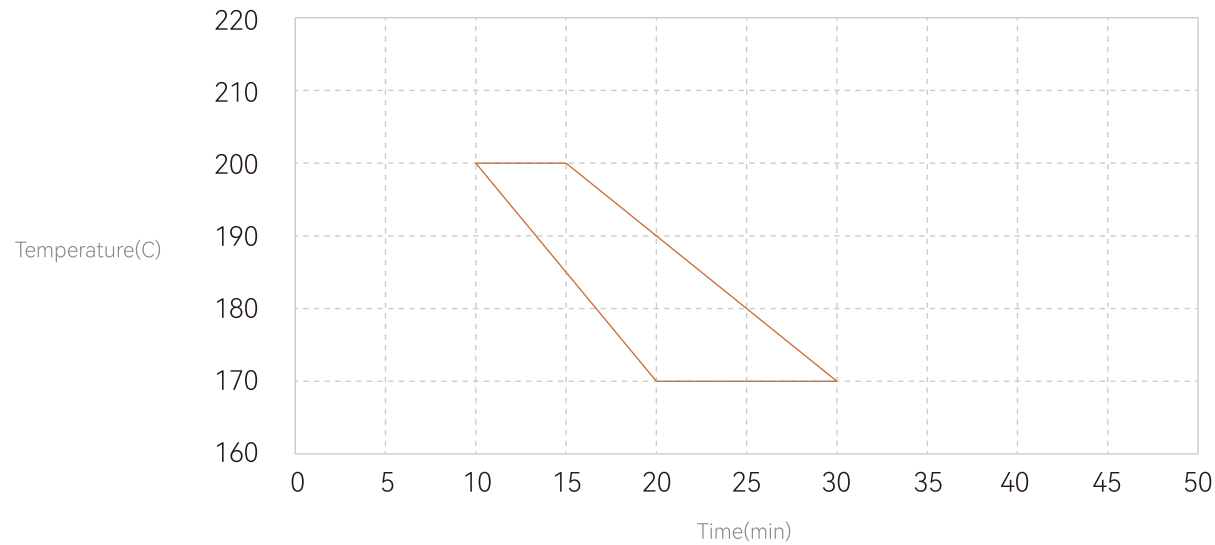
Pretreatment:

- Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
 - Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
 - Galvanized steel : zinc phosphating、 chroming
 - Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

- Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
- Recycling powder add ratio: In order to achieve uniform color and effect, the fresh powder using ratio should be determined according to the actual situation, and should not be less than 70%. At the same time the reclaim powder should only be continuously added and sieved into the powder circulation. Because the recycle metallic powder is no stable,it can't add more than 30%.Please verifying color and effect before using recycling powder.
- Spray gun choice: For metallic powder application, usually only use electrostatic spray gun, only for a few metalilc powder tribo spray gun could be used.Suitability of metallic effects for tribo processing must be verified prior to application. Because the powder particles and metallic particles charged ability is different, the metallic particles can't all be adsorbed onto the spraying workpiece, this will lead to color or effect difference.Usually metallic powder application methods are not recommended from electrostatic spray gun change to tribostatic spray gun.
- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

Please according our product material safety data sheet required to wear personal protective equipment, For detailed information please read the ALD product safety data sheetbefore use.

F10 exterior application fast cure powder coatings

Decorative powder coating, mainly used for decorating color steel plates and protecting mechanical components

	Product feature	Typical application	Coating appearance:	Gloss range		Test items	Test standard	F10 smooth finish	F10 texture finish	
	Good decoration Good flow Fast cure : 200°C@ 3mins Zero VOC Green and environment friendly Energy saving	Color plate Machine parts Heavy machine Heavy refrigeration equipment Electronic equipment	Smooth glossy Smooth semi-gloss Texture Rough texture	Smooth surface:50~85% Texture :3~15%		Gloss(60°) Film thickness Adhesion(1mm) Impression hardness Cupping Mandrel bend Impact(20inch.lbs) Humidity(1000hrs) Salt spray(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	50~85 unit 60~80 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	3~15 unit 70~90 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

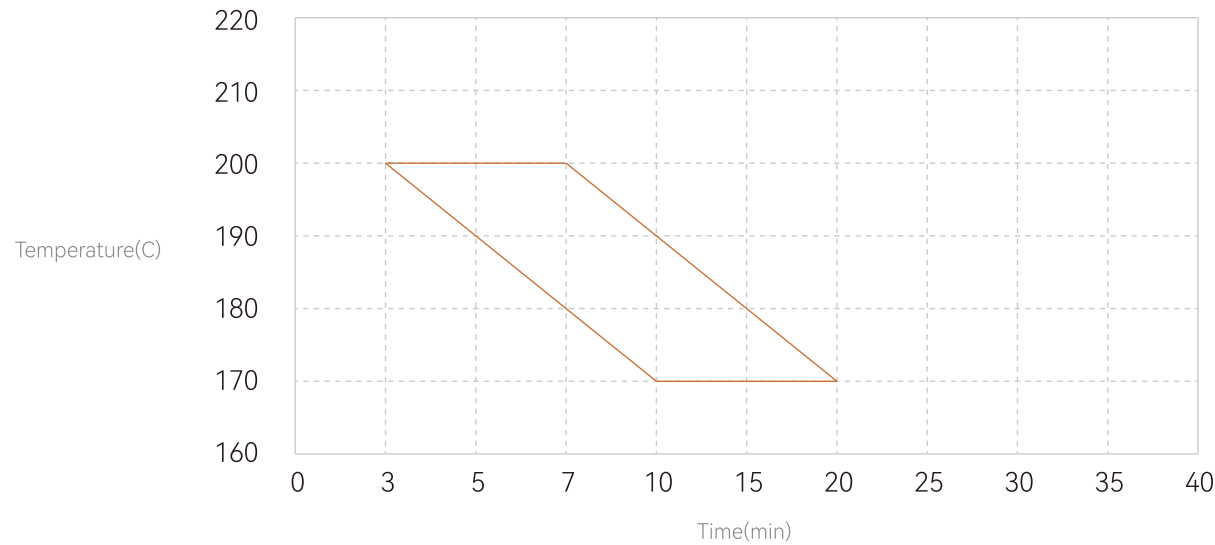
Pretreatment:

- Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
 - Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
 - Galvanized steel : zinc phosphating、 chroming
 - Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

- Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

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- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

Please according our product material safety data sheet required to wear personal protective equipment, For detailed information please read the ALD product safety data sheetbefore use.

A10/A10T architectural application powder coatings

High-weather resistance powder coating, mainly used for metal curtain wall and automotive parts protection

	Product feature	Typical application	Coating appearance:	Gloss range		Test items	Test standard	A10 smooth finish	A10 texture finish	
	10 years guarantee for architectural application Qualicoat approval Meet AAMA2603 requirement Good weather resistance Excellent flow Good storage stability Zero VOC Green and environment friendly	Aluminium extrusions Auto parts building component Ship accessories Metal ceiling	Smooth glossy Smooth semi-gloss Smooth matt-gloss Texture	Smooth surface:15~85% Texture :3~15%		Gloss(60°) Film thickness Adhesion (1mm) Impression hardness cupping Mandrel bend Impact (20inch.lbs) Resistance to SO2 humid atmospheres Accelerated weathering (1000hrs) Salt spray test(1000hrs) Resistance to mortar Boiling water test Condensation water test	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231 (Kesternich) ISO 11341 ISO 9227 EN 12206-1 Qualicoat ISO 6270-2)	15~85 unit 60~80 micron 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >50% Maximum blistering less than 1mm Pass Pass Pass	3~15 unit 70~90 micron 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >50% Maximum blistering less than 1mm Pass Pass Pass	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³ ,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
- Recycling powder add ratio: In order to achieve uniform color and effect, the fresh powder using ratio should be determined according to the actual situation, and should not be less than 70%. At the same time the reclaim powder should only be continuously added and sieved into the powder circulation. Because the recycle metallic powder is no stable,it can't add more than 30%.Please verifying color and effect before using recycling powder.
- Spray gun choice: For metallic powder application, usually only use electrostatic spray gun, only for a few metalilc powder tribo spray gun could be used.Suitability of metallic effects for tribo processing must be verified prior to application. Because the powder particles and metallic particles charged ability is different, the metallic particles can't all be adsorbed onto the spraying workpiece, this will lead to color or effect difference.Usually metallic powder application methods are not recommended from electrostatic spray gun change to tribostatic spray gun.
- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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Application guideline:

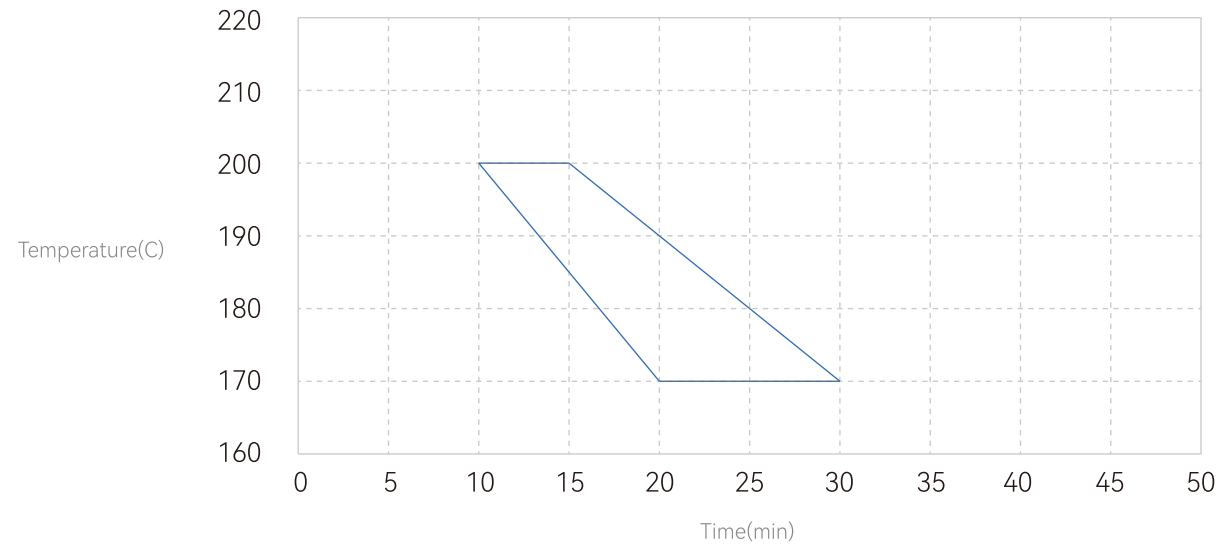
Pretreatment:

- Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
 - Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
 - Galvanized steel : zinc phosphating、 chroming
 - Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

- Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



A15/A15T architectural application powder coatings

Ultra-weatherproof powder coating, mainly used for high-performance aluminum and steel structures

	Product feature	Typical application	Coating appearance:	Gloss range		Test items	Test standard	A15 smooth finish	A15 texture finish	
	15 years guarantee for architectural application Meet AAMA2604 requirement Good weather resistance Excellent flow Good storage stability Zero VOC Green and environment friendly	Aluminium extrusions Auto parts Building curtain wall The steel structure Public facilities	Smooth glossy Smooth semi-gloss Smooth matt Texture	Smooth surface:15~85% Texture :3~15%		Gloss(60°) Film thickness Adhesion(1mm) Impression hardness Cupping Mandrel bend Impact(20inch.lbs) Resistance to SO2 humid atmospheres Florida exposure(5 years) Salt spray test(3000hrs) Resistance to mortar	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231 (Kesternich) AAMA 2604 ISO 9227 EN 12206-1	15~85 unit 60~80 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >30% Maximum blistering less than 1mm Pass	3~15 unit 70~90 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >30% Maximum blistering less than 1mm Pass	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³ ,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

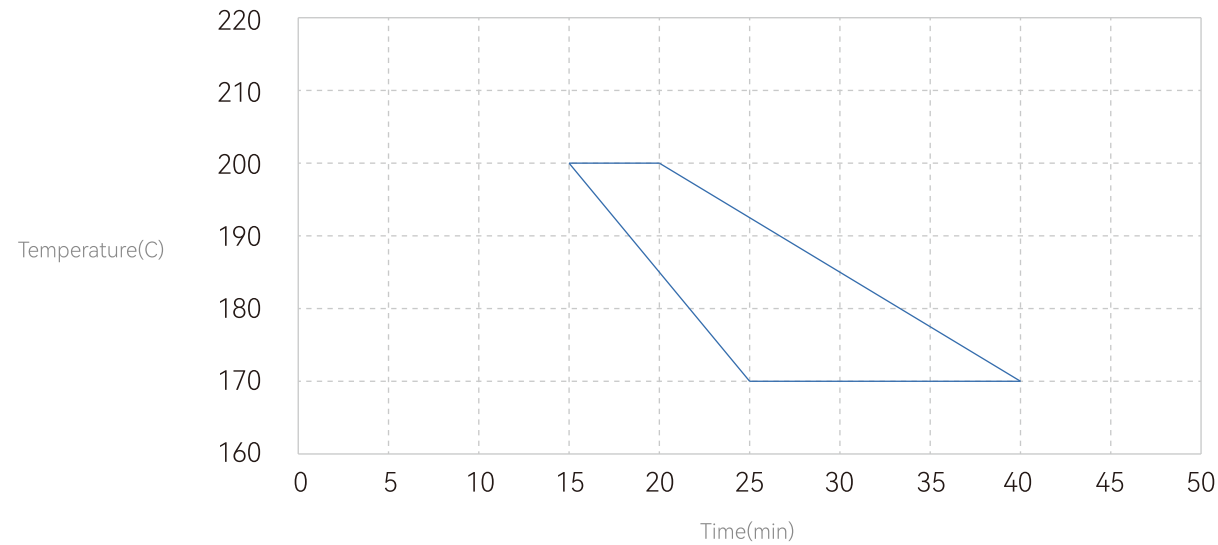
Pretreatment:

- Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
 - Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
 - Galvanized steel : zinc phosphating、 chroming
 - Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

- Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
- Recycling powder add ratio: In order to achieve uniform color and effect, the fresh powder using ratio should be determined according to the actual situation, and should not be less than 70%. At the same time the reclaim powder should only be continuously added and sieved into the powder circulation. Because the recycle metallic powder is no stable,it can't add more than 30%.Please verifying color and effect before using recycling powder.
- Spray gun choice: For metallic powder application, usually only use electrostatic spray gun, only for a few metalilc powder tribo spray gun could be used.Suitability of metallic effects for tribo processing must be verified prior to application. Because the powder particles and metallic particles charged ability is different, the metallic particles can't all be adsorbed onto the spraying workpiece, this will lead to color or effect difference.Usually metallic powder application methods are not recommended from electrostatic spray gun change to tribostatic spray gun.
- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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A20 architectural application powder coatings



High-weather resistance powder coating, mainly used for outdoor high-performance aluminum and industrial component protection



	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	A20 smooth finish	A20 texture finish	
	20 years guarantee for architectural application Meet Qualicoat3 requirement Good weather resistance Excellent chemical resistance Zero VOC Green and environment friendly	(Application by Certified Applicators only) High performance architectural curtain wall Commercial building High performance aluminium extrusions High performance public facilities	Smooth semi-gloss Smooth matt	Smooth surface:15~85%		Gloss(60°) Film thickness Adhesion(1mm) Impression hardness Cupping Mandrel bend Impact(20inch.lbs) Resistance to SO2 humid atmospheres Accelerated weathering (2000hrs) Salt spray test(4000hrs) Resistance to mortar	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231 (Kesternich) ISO 11341 ISO 9227 EN 12206-1	30~70 unit 60~80 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >90% Maximum blistering less than 1mm Pass	15~30 unit 60~80 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >90% Maximum blistering less than 1mm Pass	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

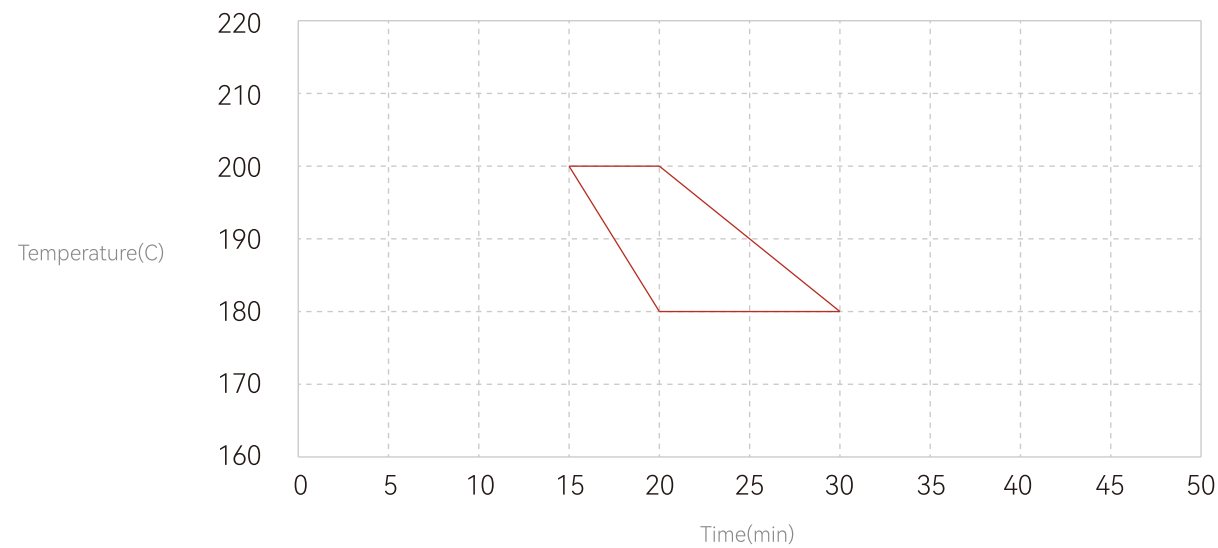
Pretreatment:

- Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、chrome free treatment
 - Steel: sand blast/ball blast (SA 2.5)、iron phosphating or zinc phosphating
 - Galvanized steel : zinc phosphating、chroming
 - Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

- Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
- Recycling powder add ratio: In order to achieve uniform color and effect, the fresh powder using ratio should be determined according to the actual situation, and should not be less than 70%. At the same time the reclaim powder should only be continuously added and sieved into the powder circulation. Because the recycle metallic powder is no stable,it can't add more than 30%.Please verifying color and effect before using recycling powder.
- Spray gun choice: For metallic powder application, usually only use electrostatic spray gun, only for a few metalilc powder tribo spray gun could be used.Suitability of metallic effects for tribo processing must be verified prior to application. Because the powder particles and metallic particles charged ability is different, the metallic particles can't all be adsorbed onto the spraying workpiece, this will lead to color or effect difference.Usually metallic powder application methods are not recommended from electrostatic spray gun change to tribostatic spray gun.
- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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A25 architectural application powder coatings

Fluorocarbon resin ultra-high weather resistance powder coating, mainly used in high-performance building curtain walls and aluminum materials

	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	A25	
	25 years guarantee for architectural application Meet AAMA2605 requirement Good weather resistance Excellent chemical resistance Zero VOC Green and environment friendly	(Application by Certified Applicators only) High performance architectural curtain wall Commercial building High performance aluminium extrusions High performance public facilities	Smooth semi-gloss	Smooth surface:30~70%		Gloss(60°) Film thickness Adhesion(1mm) Impression hardness Cupping Mandrel bend Impact(20inch.lbs) Resistance to SO2 humid atmospheres Florida exposure (10 years) Salt spray test(4000hrs) Resistance to mortar	ISO 2813 ISO 2360 ISO 2409 ISO 2815 ISO 1520 ISO 1519 ASTM D-2794 ISO 3231 (Kesternich) AAMA 2605 ISO 9227 EN 12206-1	30 ~ 70 unit 60~80 microns 0 level ≥85 ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Gloss retention >50% Maximum blistering less than 1mm Pass	

Packing size : 20KG/box
Specific gravity : 1.2 ~ 1.7g/cm³ ,(relative to product color)
Theoretical coverage : 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
Shelf life : 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

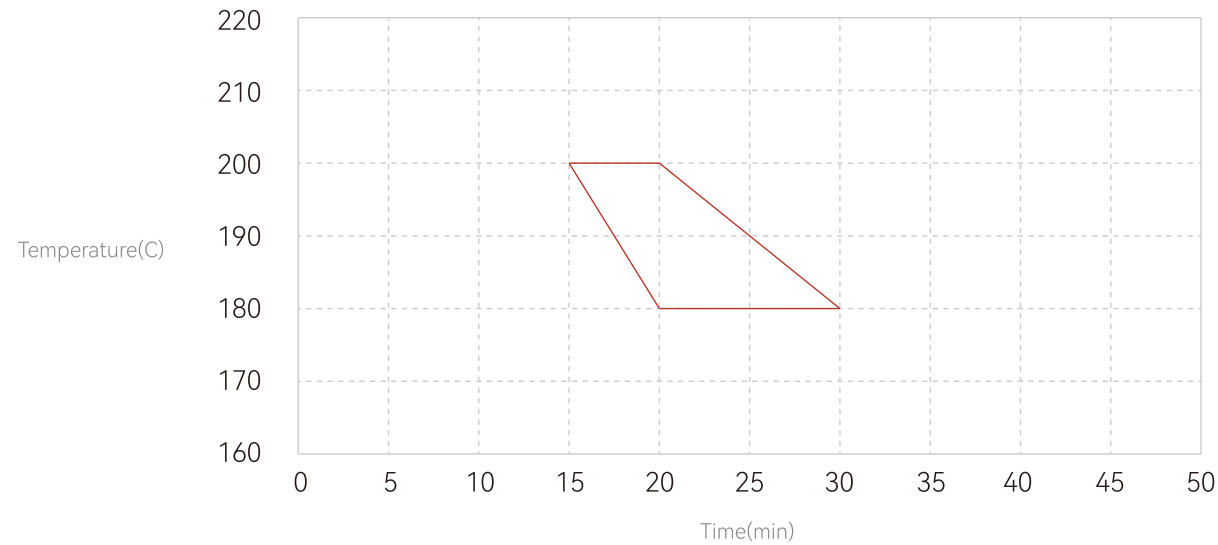
Pretreatment:

Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
- Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
- Galvanized steel : zinc phosphating、 chroming
- Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
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- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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H10 interior application hybrid powder coatings



Decorative powder coatings, mainly used for indoor furniture and fitness equipment protection



	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	H10 smooth finish	H10 texture finish	
	Good decoration Good flow Good storage stability Zero VOC Green and environment friendly	Indoor office furniture Machine parts Metal toys Fitness equipment Electronic equipment Home appliance	Smooth glossy Smooth semi-gloss Texture Rough texture	Smooth surface:15~95% Texture :3~15%		Gloss(60°) Film thickness Adhesion(1mm) Pencil hardness Cupping Mandrel bend Impact(20inch.lbs) Humidity(1000hrs) Salt spray(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ASTM D-3363 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	15~95 unit 60~80 microns 0 level H ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	3~15 unit 70~90 microns 0 level H ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	

- Packing size

: 20KG/box
- Specific gravity

: 1.2 ~ 1.7g/cm³ ,(relative to product color)
- Theoretical coverage

: 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
- Shelf life

: 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

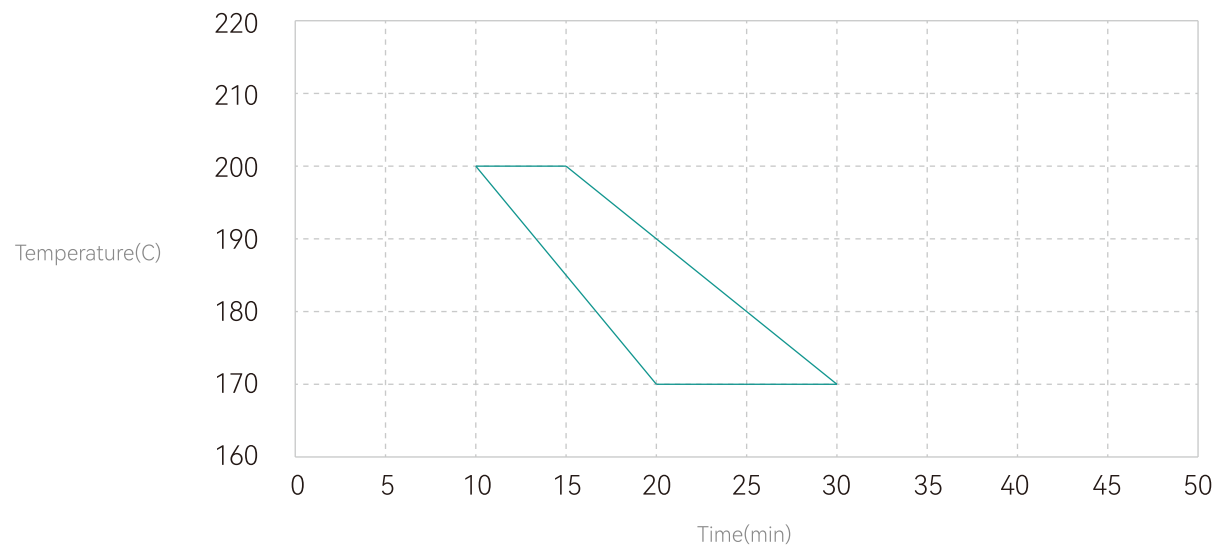
Pretreatment:

Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
- Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
- Galvanized steel : zinc phosphating、 chroming
- Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

- Color control: Even with the most strict standards for color control is unable to avoid color different and effect subtle differences between batch to batch,In order to avoid the possible differences in color and effect, Please compared with standard panel in advance before application. The spraying system may cause color or effect difference , suggesting using the upper and lower deviation panels to control color and finish effect. In order to ensure the stability of color and effect between batch to batch, please fix process parameters, such as voltage, air pressure, spray gun, the distance to the workpiece ,fixed recycle powder add ratio etc.
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- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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H20 interior application hybrid powder coatings



Rapid curing decorative powder coatings, mainly used in indoor office facilities and electronic appliances



	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	H20 smooth finish	H20 texture finish	
	Good decoration Good flow Good storage stability Zero VOC Green and environment friendly	Indoor office furniture Machine parts Metal toys Fitness equipment Electronic equipment Home appliance	Smooth glossy Smooth semi-gloss Texture Rough texture	Smooth surface:15~95% Texture :3~15%		Gloss(60°) Film thickness Adhesion(1mm) Pencil hardness Cupping Mandrel bend Impact(20inch.lbs) Humidity(1000hrs) Salt spray(1000hrs)	ISO 2813 ISO 2360 ISO 2409 ASTM D-3363 ISO 1520 ISO 1519 ASTM D-2794 ISO 6270-1 ISO 9227	15~95 unit 60~80 microns 0 level H ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	3~15 unit 70~90 microns 0 level H ≥5mm ≤5mm Direct and reverse pass Maximum blistering less than 1mm Maximum blistering less than 1mm	

Packing size : 20KG/box
Specific gravity : 1.2 ~ 1.7g/cm³ ,(relative to product color)
Theoretical coverage : 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
Shelf life : 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

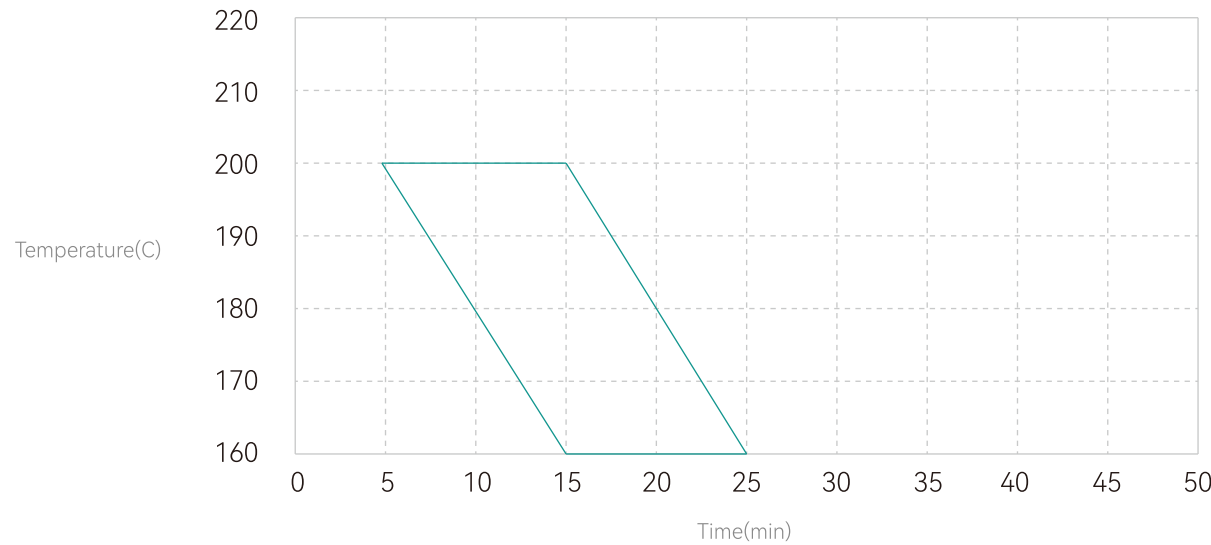
Pretreatment:

Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、chrome free treatment
- Steel: sand blast/ball blast (SA 2.5)、iron phosphating or zinc phosphating
- Galvanized steel : zinc phosphating、chroming
- Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

Cure window: (substrate temperature)



Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.
- In order to achieve enough hiding,The coating thickness should be at least 75 microns , but not more than 110 microns. Bright colors may require a higher film thickness.

Attention for metallic powder coatings:

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- Recycling powder add ratio: In order to achieve uniform color and effect, the fresh powder using ratio should be determined according to the actual situation, and should not be less than 70%. At the same time the reclaim powder should only be continuously added and sieved into the powder circulation. Because the recycle metallic powder is no stable,it can't add more than 30%.Please verifying color and effect before using recycling powder.
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- Grounding requirements:When using metallic powder coatings, the powder-spray system and the object to be coated must sufficiently be grounded. This measure contributessignificantly to the consistency of the color and effect.
- Coating cleaning:building coating needs to be cleaned at least once yearly. For coating texture effect, due to the rough surface, not easy to clean, it can clean with clean water or a weak base solution, and non-woven wipes, cannot be used with the friction and swab scraping tool, also can't use high pressure cleaning equipment. Need water to rinse after cleaning. Cannot use organic solvent cleaning, even the short-term use of organic solvents, such as nitro thinner or acetone, alkaline and acid and high abrasive cleaning agents can be causing irreversible damage on the coating surface.

Health and Safety:

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E30 two coat system for the corrosion protection powder coatings



Base coat for industrial and architectural application



	Product feature	Typical application	Coating appearance	Gloss range		Test items	Test standard	E30 primer+A10 top coat	
	Excellent corrosion protection Good chemical resistance Very good edge coverage Good storage stability Zero VOC Green and environment friendly	Primer for marine building Auto corrosion parts Metal toys Primer for steel	Smooth glossy Smooth semi-gloss	Smooth surface:60~90%		Excellent corrosion protection Good chemical resistance Very good edge coverage Good storage stability Zero VOC Green and environment friendly	ISO 2360 ISO 2409 ISO 6270-1 ISO 9227 ISO12944	160~180 microns 0 level Maximum blistering less than 1mm Maximum blistering less than 1mm Meet C5 I corrosion requirement	

Packing size : 20KG/box
Specific gravity : 1.2 ~ 1.7g/cm³ ,(relative to product color)
Theoretical coverage : 9.8 ~ 13.8m² depend on specific gravity (60um film thickness)
Shelf life : 6 months from date of delivery with dry condition no more than 25 °C

Product performance data sheet:

The data is checked on 0.7mm thickness chromating aluminum panel. Actual product performance may have some difference due to different process ,different pretreatment.

Application guideline:

Pretreatment:

Suitable pretreatment including:
- Aluminum: yellow chroming treatment(according DIN 50939)、green chroming treatment、 chrome free treatment
- Steel: sand blast/ball blast (SA 2.5)、 iron phosphating or zinc phosphating
- Galvanized steel : zinc phosphating、 chroming
- Stainless steel: ball blast. Recommended maximum depth 25 microns

Processing:

Corona spraying
Tribo* spraying
(Attention: suitability of metallic powder for tribo processing must be verified prior to actual application)

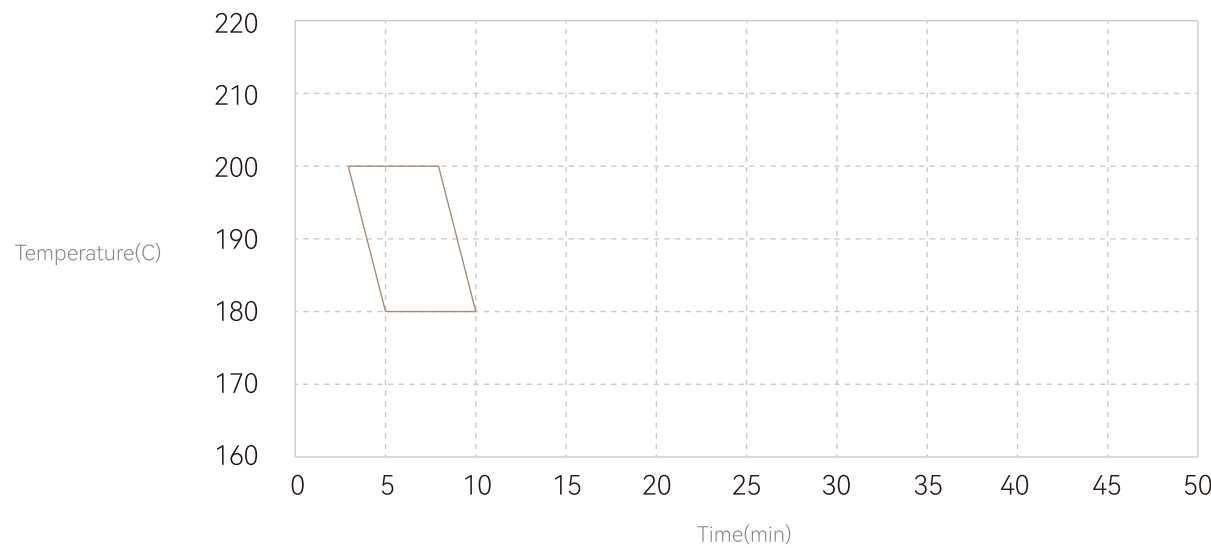
Special end use attention:

- The suitability of the coating must be checked before post bending, Microscopic cracks in the film of the powder coating can lead to corrosive damage.
- Coating joint sealant and any other surface contact with the coated protection auxiliary products, such as lubricating wax, drilling cutting lubricant, PH value must be neutral, and cannot affect coating performance.
- When using recycle powder, the recycling powder ratio need verify first.

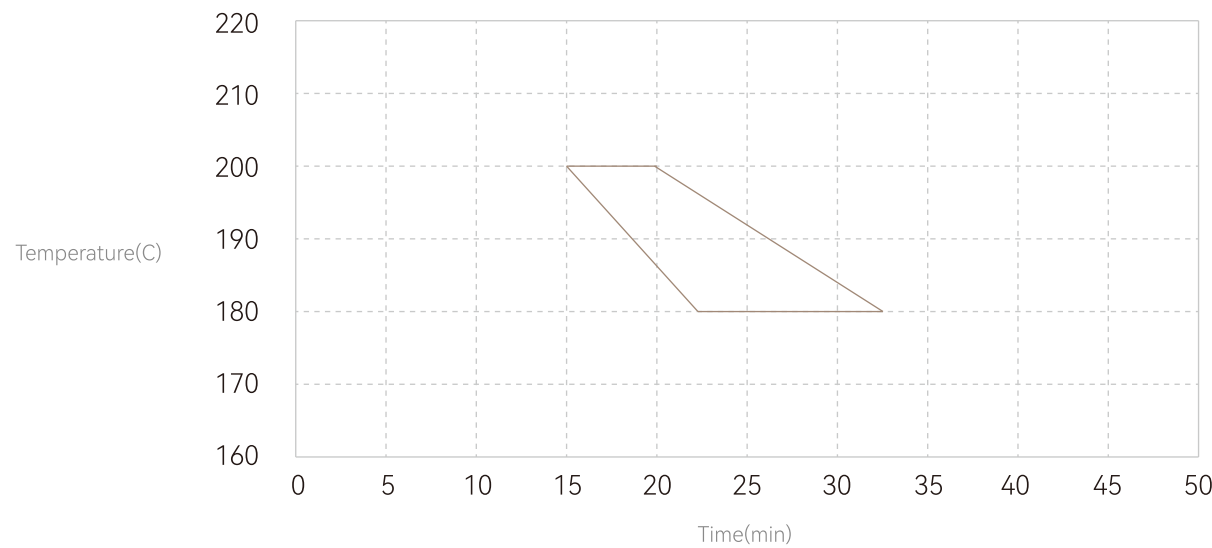
Health and Safety:

Please according our product material safety data sheet required to wear personal protective equipment, For detailed information please read the ALD product safety data sheetbefore use.

Cure window: (substrate temperature)



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CREATING A SUSTAINABLE FUTURE

创造可持续的未来

Adhering to the concept of environmental protection, starting from ALD
秉承环保理念，从爱丽德做起