



烟台优联新材料有限公司

YANTAI YOLIAN ADVANCED MATERIALS CO.,LTD

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Product Technical Data Sheet

Fingerprint Resistant Agent

(Anti-graffiti)

HR-442

■ Product Description

This product is synthesized from a polymer compound, which has hydrophobic and oleophobic effects. After being added to powder coatings, the fingerprints of the coating film can be eliminated immediately, showing excellent effects of eliminating handprints and graffiti, as well as lubricity, scratch resistance and wear resistance!

This product is a universal product and can be used in various systems. It can be used in matte, dead matte, silver electroplating and various metallic powder coating that require anti-fingerprint and anti-handprint. High gloss powder does not affect gloss, screen printing and repainting!

■ Reference formula

Formula 1: pure polyester resin matting system: (anti-fingerprint and fingerprint elimination)

Raw material name	Quantity (g)	Remarks
Pure polyester	550	/
TGIC curing agent	47.5	/
MT-108 outdoor matting agent (physical type)	60	From Yolian company
LV-8588 General leveling agent	10	From Yolian company
701B gloss enhancing agent	10	/
Pure benzoin	5	Benzoin
HR-442 Fingerprint resistant agent (Anti-graffiti)	15	From Yolian company
Filler	295.5	/
900HL carbon black	7	From Yolian company
Total	1000	



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Formula 2: hybrid matting powder coating system: (anti-fingerprint and fingerprint elimination)

Name of raw material	Quantity g	remarks
Polyester Resin (50/50)	230	/
Epoxy Resin	320	/
Semi-physical and semi-chemical matting agent	45	/
LV-8588 General leveling agent	10	From Yolian company
701 gloss enhancing agent	10	/
Pure benzoin	5	/
HR-442 fingerprint resistant agent	15	From Yolian company
Filler	358	/
900HL carbon black	7	From Yolian company
Total	1000	

Formula 3: Acrylic matting system (skin powder) gloss 2-3%

Raw material name	Quantity (g)	Remarks
NH-3307 polyester resin	500	/
Soft touch matting hardener MT-006	140	From Yolian company
TGIC curing agent	9	/
Extinct barium	312	/
H-8588 General leveling agent	10	From Yolian company
401 pure benzoin	3	/
HR-442 fingerprint resistant agent	10	From Yolian company
WS-20 tetrafluoroethylene wax	10	From Yolian company
900HL carbon black	7	From Yolian company
Total	1000	



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■ Precautions:

Please pay attention to the mixing order: A、 half resin+pigment.
B、 Filler+additives+half resin
C、 The mixing time is 3 minutes (including crushing time)

Extrusion process parameters: the extrusion temperature is low, between 90-105°C, not too high, the cooling temperature is strictly controlled, the extrusion speed is 38-40HZ, the feeding speed is 20HZ, and it is adjusted under the safe condition that the voltage does not exceed the load;

Crushing particle size control: the D50 particle size is controlled at about 30 microns, the film thickness is 60-70 microns, and the surface is smooth, good flow and delicate;

Do not add low molecular weight materials, such as low melting point polyethylene wax, etc.;

You can directly add 1% HR-442 fingerprint resistant agent, which can eliminate fingerprints and handprints without affecting the screen printing and recoating effects!

This product can automatically eliminate hand sweat handprints, and hand oil can be wiped off!

Features of this product: This product has skin feel when it is added with matt powder coating, which has the function of hydrophobic and oleophobic. Sweat and fingerprints can be eliminated immediately, and the coating is not easy to stick to dust, easy to clean, and feels silky and delicate! It also has a certain anti-graffiti effect!