

TECHNICAL DATA SHEET

REAFREE® UV 2130

Powder Resins / UV Resin



Low / Ultra Low Temperature Cure

PRODUCT APPLICATION DETAILS

Epoxy acrylated polyester resin to be used in the formulation of UV curable powder coatings. Specially designed to formulate clear varnishes and pigmented paints for MDF

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	3 max mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	2-6 Pa.s	DIN 53229
Color (50%)	3 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (T _g)	approx 54 °C	DSC

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

CURING CONDITIONS

1 to 2 minutes in a IR oven (surface temperature between 100-200°C) followed by few seconds under UV lamps.

The conditions of temperature UV radiation should be optimised for each paint formulation.

MARKET & APPLICATIONS

Coatings & Inks

- Industrial Coating
 - Wood Furniture

PERFORMANCE BENEFITS

- High chemical resistance.
- Good flow.
- High gloss appearance.

REAFREE® UV 2130

FORMULATION GUIDELINES

STARTING FORMULATION	
REAFREE® UV 2130	640
Irgacure 2959 ⁽¹⁾	15
Irgacure 819 ⁽¹⁾	14
BYK 360-P ⁽³⁾	10
TiO ₂ ⁽²⁾	250
Blanc Fixe ABR	80
Acematt OK 412	1

⁽¹⁾ BASF

⁽²⁾ Kronos® 2160, Tiona RL-68 (Millenium)

⁽³⁾ BYK Chemie

APPLICATION / EXTRUSION CONDITIONS

CHARACTERISTICS	
Extruder	BUSS PCS-30
Spraying gun	GEMA PG 1-B
Extrusion speed	150 rpm
Application voltage	60-80 kV
Test substrate	MDF
Extrusion temperature	70 °C

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	approx. 90 %	
Adhesion	Gt0	DIN 53151
Pencil hardness	H	ASTM D-3363-92A
MEK resistance	> 100 double rubs	ASTM D-4752-87

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

DELIVERY FORM

Granules. White opaque polyethylene bags of 25 Kg. One Ton pallet shrink – wrapped.

STORAGE AND HANDLING

Granules. Cardboard boxes of 25 Kg.

Arkema Coating Resins
410 Gregson Dr.
Cary, NC 27511 – USA
T +1 919 469 6700

Arkema Química, S.A.U.
Ctra. Olzinelles, s/n
E-08470 Sant Celoni (BCN)
Spain
T +34 938 674 000

Arkema Chemical India Private Ltd.
D-43, Trans Thane Creek
MIDC Industrial Area
400706 Mumbai - India
T +91 22 67377122

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

arkema.com

ARKEMA