

Matting Agent XG640A

I. Description:

XG640A is a kind of compound matting agent based on acrylic resin. It reacts with epoxy as 1:2. The powder coatings formulated with XG640A has the excellent impact properties; it can almost reach the effect of B68. The application of XG640A to the 50/50 or 60/40 resin could decrease the gloss effectively.

II. Technical data:

XG640A	Test Method	Specification
Appearance	Visualization	Yellowish powder
Softening point	GB/T 4507-1999	110~150℃
Solid Content	GB/T 1725-2008	≥99%

III. Application

- The dosage of XG640A is 1~5%. It can obtain 2% gloss at lowest.
- Lab test is recommended as gloss is related to resin used in the formulation. Coatings formulated with TianSong TS5700, TS6700, Guanghua GH1156, GH1261, ShenJian SJ3#B, SJ5#A can provide lower gloss and good impact properties.
- It is not recommended to add catalysts such as imidazole in the formula to improve the impact properties, as which may lead to gloss and flow fluctuation.
- Baking condition: 190℃/15min ~ 200℃/12min.

IV. Recommended Formula (190℃/15min substrate temp.)

S.N.	RM		Supplier	F-I	F-II	F-III	F-IV	F-V	F-VI
1	E-12	Epoxy Resin	JinFeng	300	300	300	260	260	260
2	TS5700 (50:50)	P.E.	TianSong	200	-	-	-	-	-
3	GH1156 (50:50)	P.E.	GuangHua	-	200	-	-	-	-
4	SJ3#B (50:50)	P.E.	ShenJian	-	-	200	-	-	-
5	TS6700 (60:40)	P.E.	TianSong	-	-	-	240	-	-
6	GH1261 (60:40)	P.E.	GuangHua	-	-	-	-	240	-
7	SJ5#A (60:40)	P.E.	ShenJian	-	-	-	-	-	240
8	XG640A	Matting Agent	SSC	50	50	50	50	50	50
9	GLP588	Leveling Agent	SSC	10	10	10	10	10	10
10	BLC701	Leveling Additive	SSC	8	8	8	8	8	8
11	Benzoin	Degassing Agent	SSC	4	4	4	4	4	4
12	Carbon Black	Pigment	-	6	6	6	6	6	6
13	W-44HB (BaSO ₄)	Filler	-	422	422	422	422	422	422
Total				1000	1000	1000	1000	1000	1000
Gloss (60°)				2.5%	2.5%	2.2%	1.7%	2.8%	2.5%
Film Thickness (µm)				60~80	60~80	60~80	60~80	60~80	60~80
Direct Impact (kg*cm)				50	50	50	50	50	50

V. Package and storage handling:

Available in polyethylene-lined, multi-ply paper bags, N.W.20KGS/Bag. Keep in the cool and dry place, keep away from fire.

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