

Matting Agent XG640B

I. Description:

XG640B is a kind of compound matting agent based on acrylic resin. It reacts with epoxy as **1:2**. The powder coatings formulated with XG640B has the excellent impact properties; it can almost reach the effect of B68. The application of XG640B to the 50/50 or 60/40 resin could decrease the gloss effectively.

II. Technical data:

XG640B	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 XG640B is 1~5%. It can obtain 2~3% 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	TS570	P.E. (50:50)	TianSong	200	-	-	-	-	-
3	GH1156	P.E. (50:50)	GuangHua	-	200	-	-	-	-
4	SJ3#B	P.E. (50:50)	ShenJian	-	-	200	-	-	-
5	TS6700	P.E. (60:40)	TianSong	-	-	-	240	-	-
6	GH1261	P.E. (60:40)	GuangHua	-	-	-	-	240	-
7	SJ5#A	P.E. (60:40)	ShenJian	-	-	-	-	-	240
8	XG640B	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°)				3.5%	3.3%	2.8%	2.5%	3.4%	3.0%
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, 600KG/PLT, 12.0MT/20# FCL.

Keep in the cool and dry place with temperature below 35℃, keep away from fire.

Shelf life is one year since production date. Seal the package well after using.

Refer to the MSDS for further information.

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