

## 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	<b>XG640A</b>	<b>Matting Agent</b>	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 <sub>4</sub> )	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.

*Notice: The key technical data or specifications for the above product described in this paper may be changed from time to time due to improvement constantly. SSC reserves the right to change the specifications of its products without prior notice. Although the information in this paper is based on our own investigation and is believed reliable, SSC cannot assume any responsibility for performance or results obtained through the use of our products herein described. Neither we nor our agents shall be liable for any injury, loss or damages directly or indirectly caused by our products. The user is held to check the quality, safety and all other properties of our product before using. Nothing herein is to be taken as permission or recommendation to practice any patented invention without a license.*

