Matting Agent XG610B

I   Description

XG610B is a kind of compound matting agent containing carboxyl, it reacts with epoxy as 1:2. The powder coatings formulated with XG610B has the excellent impact properties, flowing and yellowing resistance. The application of XG610B to the 50/50 or 60/40 resin could decrease the gloss effectively.

II   Technical data

XG610B	Test Method	Specification
Appearance	Visualization	White powder
Softening Point	GB/T 4507-1999	110~150 ℃
Solid Content	GB/T 1725-2008	99.0%min

III   Application:

1 The dosage of XG610B is 3~5%. Esp. suit for smooth matt finishes with 3~15% gloss (60°).

2 As the gloss is connected with the resin used, the formulation should be tested in lab first. Coatings formulated with Guanghua P5078, ShenJian SJ 5#A(4:6), TianSong TM9011F (5:5), Quanfeng 9402 (4:6) can provide lower gloss and good impact properties.

3 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. .

4 Baking Condition: 190℃/15min, or 200℃/12min.

IV   Recommended Formula

S.N		RM	Supplier	F1	F2	F3	F4
1	E-12	Epoxy Resin	SSC	145	145	124	124
2	TM9011F	Polyester Resin	TianSong	105	-	-	-
3	P5086	Polyester Resin	Sino-French	-	105	-	-
4	SJ5#A	Polyester Resin	Shenjian	-	-	126	-
5	P9402	Polyester Resin	Quanfeng	-	-	-	126
6	**XG610B**	**Matting Agent**	SSC	20	20	20	20
7	GLP588	Leveling Agent	SSC	5	5	5	5
8	BLC701B	Leveling Additive	SSC	4	4	4	4
9	Benzoin	Degassing Agent	SSC	2	2	2	2
10	C	Carbon Black	Pigement	0.2	0.2	0.2	0.2
11	NTR760	TiO_2	Pigement	80	80	80	80
12	W-44HB	$BaSO_4$	Filler	138.8	138.8	138.8	138.8
		Total		500	500	500	500
		Gloss	60°	3.60%	3.80%	3.70%	4.00%
		Film Thickness	μm	60-80	60-80	60-80	60-80
		Impact(Direct/Reverse)	kg.cm	50	50	50	50

*Baking Condition: 190℃/15min

V   Package, Storage & Handling

Available in polyethylene-lined, multi-ply paper bags, N.W.25KGS/Bag.
Keep in the cool and dry place, keep away from fire.