

Matting Agent XG607C

I Description

XG607B is a kind of composite matting agent. It provides good mechanic property and excellent matt effect in polyester powder coatings. It can obtain lowest 10% gloss in TGIC system (PE 93/7 or 94/6).

II Technical data

| XG607C | Test Method | Specification |
|-----------------|----------------|---------------|
| Appearance | Visualization | White powder |
| Softening Point | GB/T 4507-1999 | 110~150 °C |
| Solid Content | GB/T 1725-2008 | 99.0%min |

III Application:

- Dosage of XG607C is 1~6%. Adding extra TGIC with the amount of 10% of XG607B will help to obtain 10~50% gloss (60°) at lowest.
- 93/7 or 94/6 TGIC system polyesters are preferred. Polyesters of low viscosity and low reactivity can help for better flow and matt effect (such as P5900, P4900, P4600 from DSM, P9336 from Sino-French, CE2077 from Tiansong, and SJ4ET from ShenJian).
- 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°C/15min, or 200°C/12min.

IV Recommended Formula

| S.N | | RM | Supplier | F1 | F2 | F3 | F4 | |
|------------------------|---------------|----------------------|----------|-------|-------|-------|-------|-------|
| 1 | P4900 | Polyester Resin | DSM | 280 | 280 | - | - | |
| 2 | SJ4ET | Polyester Resin | ShenJian | - | - | 280 | 280 | |
| 3 | TGIC | Curing Agent | NiuTang | 20.5 | 20.5 | 23.5 | 23.5 | |
| 4 | XG607C | Matting Agent | SSC | 25 | 25 | 25 | 25 | |
| 5 | GLP588 | Leveling Agent | SSC | 5 | 5 | 5 | 5 | |
| 6 | Benzoin | Degassing Agent | SSC | 2 | 2 | 2 | 2 | |
| 7 | BLC701B | Leveling Additive | SSC | 4 | 4 | 4 | 4 | |
| 8 | NTR760 | TiO ₂ | Pigement | 100 | - | 100 | - | |
| 9 | C | Carbon Black | Pigement | - | 3 | - | 3 | |
| 10 | W-44HB | BaSO ₄ | Filler | 63.5 | 160.5 | 60.5 | 157.5 | |
| Total | | | | 500 | 500 | 500 | 500 | |
| Gloss | | | | 60° | 15.3% | 14.7% | 16.6% | 14.4% |
| Film Thickness | | | | µm | 60-80 | 60-80 | 60-80 | 60-80 |
| Impact(Direct/Reverse) | | | | kg.cm | 50 | 50 | 50 | 50 |

*Baking Condition: 190°C/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.

