



XCELMATT NB 68

Matte Hardener NB 68 is developed under technical collaboration with Chemical Dynamics LLC, USA. It is a matting hardener specially designed for dead matte, satin, semi-glossy finishes for both Pure Epoxy and Hybrid (Epoxy/Polyester) Powder Coatings with excellent flow properties, low temperature cure and non-yellowing properties. Dosage level of this Matte Hardener needs to be adjusted depending on the gloss level required. NB 68 allows epoxy resin to melt and flow prior to reacting with Epoxy. NB 68 offers superior mechanical properties/impact resistance compared to conventional matting hardeners.

PHYSICAL PROPERTIES:

Appearance	Free flowing white fine powder
Melting/Softening point (Deg C)	190-210° C
Density (gm/cm3)	1.6-1.65
Sieve analysis	95% Passing 40 microns

Raw materials	Hybrid	Pure Epoxy
Polyester (Acid value 30-35)	18	-
Epoxy resin (EEW 750)	42	60
Benzoin (Degassing additive)	0.5	0.5
Extenders	34.5	31.5
Resiflow PV 88 (Flow & leveling additive)	0.8	0.8
Carbon Black N330	1.2	1.2
XCELMATT NB 68	2.4	6
Total	100	100

*Recommended level – 7-11% PHR on solid resin or 7-10% on free (unreacted) Epoxy resin.



Cure schedule	150° C for 30 minutes (Substrate Temp.), 160° C for 20 minutes (Substrate Temp.), 170° C for 15 minutes (Substrate Temp.),
DFT (ASTM D1400)	50-60 Microns
Gloss range - 60 Deg (ASTM D523)	15-55 (for hybrid) and 10-55 (for pure epoxy)
Reverse Impact (ASTM D2794-93)	> 120 Kg-cm
Scratch Hardness (IS 101:1964)	> 2 Kgs
Packaging	20 / 25 kg HDPE Drum
Shelf life	2 years
Storage	Keep away from heat sources and direct sunlight. Store it below 30° C.
Safety & Handling	Please refer to material safety datasheet for additional information.
Warranty Information	The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are effective.