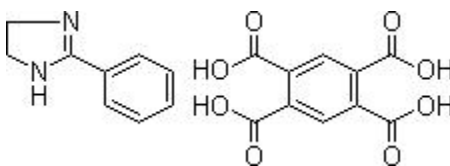


CURING AGENTMB55/MATTHARDENERMB55

DESCRIPTION:

Curing Agent MB55/Matt Hardener MB55 is the salts of polycarboxylic acid with Cyclic amidine. The hardener, applied in suitable formulations can produce epoxy or Hybrid coatings for matt or semi-matt gloss with very good flow and properties. Variation between matt and semi-matt surface can be obtained by means of suitable adjustment of formulation.

INFORMATION:

Chemical name	2-Phenyl-2-imidazoline pyromellitate
Alternative chemical Name	4,5-Dihydro-2-phenyl-1H-imidazole -1,2,4,5-benzenetetracarboxylate
Product Code	Curing Agent MB68/Matt Hardener MB55
Chemical structure	
Molecular formula	$C_{10}H_6O_8 \cdot \frac{1}{2} C_4H_4N_2$
CAS No.	54553-90-1
EINECS No.	259-224-4

TECHNICAL DATA:

	Curing Agent/Matt Hardener MB55
Appearance	White powder
Melting range	220~228℃
Purity	≥99%

APPLICATION:

The hardener may be applied both in pure epoxy and hybrid (epoxy-polyester) resin powder coatings. Epoxy coatings of gloss range level ranging from 15%~30% and hybrid coatings with gloss levels ranging from 20%~60% (or greater) may easily be formulated by the use of MB55. Coatings produced with MB55 is characterized by color and gloss stability under normal baking conditions. Hybrid coating with matt or semi-matt gloss may be achieved by replacing some of the polyester in the formulation with an equivalent quantity of MB55.

The following gives the formulations of MB55 for matt epoxy coatings.

Gloss Formulation	20	30	45	75
Epoxy(604)	54.5	39.7	35.7	31.8
Polyester	---	14.8	35.7	26.7
MB55	5.0	5.0	3.0	1.0
TiO2	40	40	40	40
WD88	0.5	0.5	0.5	0.5
Benzoin	0.3 wt%	0.3 wt%	0.3 wt%	0.3 wt%
carbon black	0.5-1	0.5-1	0.5-1	0.5-1

* Epoxy (663U) is same as Epoxy E-12

Ployester: Acid value 30-35KOHg/mg

WD88 is a leveling agent with silica carrier available from Huangshan Welde Industry Co.,Ltd. It's noted that the achievement of matt effect and relevant properties of the film is connected with full cured of coatings.

Claim: Above information is offered as a recommendation only. The suitability of MB55 should be determined by evaluation in your finished application.

Object temperature	Time
180℃	20-25min
190℃	12-15min
200℃	10-12min

PACKAGING:

Package in polyethylene-lined, multi-ply paper bags, N.W. 20KGS/Bag or 25KGS/Bag. 1000kg/Pallet or 700kg/Pallet.10Tons in FCL with 10 Pallets. Or 14Tons in FCL with 20Pallets.

STORAGE :

Store in closed containers; avoid contact with skin and eyes; wear dust mask when operating.