



MatteX-3 is a reactive matting agent based on carboxyl-function acrylic resin for polyester/epoxy hybrid powder coatings. It has these advantages:

- Good matting performance : Lowest gloss - ca 10 GE
- Cost effectiveness : The low-dose MatteX-3 improving cost-effectiveness ratio
- Appearance : Smooth and delicate features
- Full Impact strength : No crack observed at +/-50kg*cm

Typical Properties:

- Appearance : White or light yellow powder
- Equivalent Weight (carboxyl): Approx. 600
- Volatile Organic Compounds (VOCs) : ≤ 3%(200°C /10min.)
- Softening point, RING AND BALL : 100-125°C

Application:

Pre-mix and Co-extrusion [One-Shot Method]

Storage:

12months @27°C, Keep Dry

Safety and Caution :

- General powder coating safety regulations can be adapted for ZEHM products
- Unless otherwise noted, ZEHM products never contain any heavy metal elements, easy-flammable or explosive materials
- Personal Protective Equipments [PPE] are required to prevent the powder from oral or breath adsorption and skin direct contact
- Any contaminated body parts should be suggested to

a rapid wash-away. Serious cases should look for the doctor's treatment

Recommended powder coating formula based on MatteX-3:

Formulation No.	1 [#]	2 [#]
Polyester-A (50/50)	248	186
Polyester-B (70/30)	--	93
Epoxy (0.12)	290	261
Resiflow PV-88, Estron	10	10
Benzoin	3	4
TiO ₂	--	220
BaSO ₄	414	201
Carbon Black MA100, Mitsubishi	5	--
MatteX-3	30	25
Total	1000	1000
Bake Schedule	200°C/10min., 180°C/15min., or 190°C/13min. (Object temperature)	
Gloss 60°[Gloss Units]	12.20%	11.50%
Impact, [KG*cm]	+/-50	
Appearance	Smooth	

- Most polyester resins are suitable for the formulations.
- MatteX-3 reacts with epoxy;MatteX-3/epoxy ≈ 1:1.4 roughly. The gloss can be adjusted by the amount of MatteX-3 and epoxy.
- Appropriate formulation adjustment of epoxy amount may get better mechanical properties.
- The content of filler and pigment can be adjusted to meet your needs. The more filler added, the better matting performance may have. Matte-type filler is recommended.
- The above formula is for reference only. The performance may be varied by resin types. Please refer to experimental data

Note:

Despite the surprising MatteX-3 ay give for your formula, batch powder Line Trial for the powder user is strongly recommended. ZEHM will not be responsible for the loss caused by not properly using our Product Data Sheet. We also never exclude the possibility of the better performances we have never found for MatteX-3

* For more detail technical information, please contact our sales persons or send E-mail to: zehm@gz-zehm.com