



Shanghai Suo Shi Chemical Industrial Co.Ltd

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## Water stripe agent MCD

### 1. Description

MCD is an organic-metallic compound, which can strongly accelerate the cure rate of epoxy/dicyandiamide and then produce shrinkage stress to create water-like traces pattern powder coating. Compared with the competitive products, MCD can wrinkle stably in thinner coating film.

### 2. Typical physical data

Appearance	ale yellow color fine powder
Melting point (°C)	185-195
Solid content(%)	>99

### 3. Suggested formulation

Epoxy resin	600	600
Polyester resin	20	20
Flow agent T-988	2	2
MCD	20-30	20-30
Dicyandiamide	28	28
BaSO4	300	300
Curing condition: 200°C/15'	Wrinkle Finish	Post blending MCC 0.3-0.8%/ to getTortoise shell texture

### 4. Characteristics

- ① You are recommended to choose an epoxy resin with stable epoxy value to keep the consistency of the texture pattern.
- ② To acquire finer pattern, you can add larger dosage of flow agent and MCD. A little excessive dicyandiamide hardener in the formulation can produce good impact resistance and intense stereoscopic sense. Small quantity of polyester containing can adjust the gloss and the consistency of the texture. Too much polyester will cause the disappearance of the texture.
- ③ You can produce a lager wrinkle pattern by dry-blending small quantity of T-55 and co-extruding 2-3% polyester. You can produce silk-like sand pattern screen powder by cooperating with sand textured agent.. You can produce a turtle shells on wrinkle pattern by dry-blending 0.3-0.8% MCC.
- ④ You can wrinkle stably in thinner coating film by incorporating with 0.1% 2-methylimidazole of dry-blending 0.1-0.3% T-103 with the base powder, but the textures will become smaller.
- ⑤ In combined with 0.05-0.08% organic clay will solve the problem of sagging
- ⑥ Adding 0.1-0.2% low temperature curing agent T-31, dry-blending cameo agent or dry-blending 0.1-0.3

MCD can help to create the texture.

#### **4. package and storage:**

Packaging with PE lined Kraft paper bags, Net weight 20kg per bag. Store in cool and dry place to avoid moisture. According to our experience, the shelf life of this product is at least 2 years when ambient temperature below 30 °C.