

DT-500

High Durable Polyester

DT-500 High Durable Polyester is formulated with an amino-polyester. This product uses a special resin synthesis processes and ceramic pigments to provide excellent color and gloss retention.

Product Characteristics

- 1. Excellent durability
- 2. Excellent stain resistance
- 3. Excellent formability and hardness
- 4. Limited color choice

Use

- 1. Roof and building panels
- 2. Industrial panels
- 3. Garage doors

Painting System

| Material Type | Painting Composition | Product Title | Coating Thickness | Hardening Temperature |
|-----------------------|----------------------|---------------|-------------------|-----------------------|
| G.I, Galvalume etc | Primer | DP-600 | 5μm | 204℃ |
| | Top coating | DT-500 | 20μm | 224℃ |

※ Backer : DB-890 Epoxy backer applied

Physical properties

| Specification | Test method | Result | |
|---------------|--|----------|---|
| ASTM D523 | 60° gloss | 10 ~ 40 | Gardner 60° meter or equivalent |
| ASTM D3363 | Pencil hardness | HB ~ 2H | No break in the film (Mitsubishi uni pencil) |
| ASTM D4145 | T-bend | 2T | No pick off with scotch #610 tape |
| ASTM D2794 | Impact (1/2in×50cm×1kg) | Good | No pick off with scotch #610 tape |
| ASTM D5402-93 | Solvent resistance | 50 cycle | MEK double rub |
| ASTM G155 | Accelerated weathering test 750hrs | Good | No objectionable chalking per ASTM D-4214 |
| ASTM D2247 | Humidity resistance 500hrs at 100°F, 95% RH | Good | Less than 5% No.8 size blisters |
| ASTM B117 | Salt spray test 500hrs 5% NaCl solution | Good | Less than 5% No.6 size |

* All data is based on lab test results and experience of NCC but, it could be changed without notice because of continuous development about quality by NCC.