

## P3982( 97:3 ) SATURATED POLYESTER RESIN

### PRODUCT

#### Properties

P3982(97:3) is a saturated polyester resin, which is used together with Primid XL-552/T105 (by 97:3) to produce pure polyester powder coatings, for matte dry blend systems in combination with P3985(90:10).

#### Specifications

Appearance: Light yellow & clear flake

Color (DMF50%): 5-10

Acid value (mgKOH/g): 20-25

Glass Transition Temperature (°C): ≥60

Viscosity (200°C/mPa.s): 5500-7000

#### Recommended Formulation

INGREDIENT	WEIGHT
Polyester resin P3982(97:3)	291g
Primid XL-552/T105	9g
TiO <sub>2</sub> (R902)	125g
BaSO <sub>4</sub>	68.5g
Flow agent(PV88/GLP588)	5g
Benzoin	1.5g

#### Technical condition for making coatings

Extruder: SLJ-30AF

Clamp set temperature(°C): 120-130

Helix pole temperature(°C): 70

Rotational speed(rpm): 60

Powder particle size(μm .max): 100

Curing condition: 180°C/10 min (metal temperature)

#### Coating film properties

Film thickness(μm): 70± 10      Gloss (60°C) %: ≤50±10

Bend (mm): ≤6      Impact intensity(kg·cm): 50

Pencil hardness: 1H

#### Package and Shelf Life

**a. Package:** net 25kgs in PE bag or multi-ply paper bag;

**b. Shelf Life:** in a ventilative, dry and clean place under 30°C, its shelf life is one year.

#### Spraying methods and conditions

Oilless and rustless cold-rolled steel plate (mm): 0.5

Electrostatic spraying (kv): 50

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