NSC-5508

**Features**
NSC-5508 is high hardness coatings for Polycarbonate

1. **Excellent anti-scratch property**
   • No significant decrease of anti-scratch property during prolonged use

2. **Superior abrasion resistance**
   • Δhaze less than 1% (Taber abrasion test: CS-10F, 500g load ×100 rotations)

3. **Good finish without orange peel skin, crack nor chalking**

4. **Excellent flexibility**

5. **Relatively long shelf life**
   • Stable more than 3 months in a refrigerator

**Typical applications**
PC sunglass, PC helmet visor, PC film, PC molding parts

**NSC-5508 cured film properties**

- **Anti-scratch property** (Steel wool #0000, 1kg load ×100 reciprocations) no scratch
- **Taber abrasion test** (CS-10F, 500g load ×100 rotations) Δhaze < 1%
- **Pencil hardness** (PC substrate, 50gf) 2H
- **Refractive index of cured film** 1.49
- **Adhesion** (cross cut tape stripping test) 100 / 100
- **Hot water resistance** (100 degrees C × 30 min)
  - **Appearance** no change
  - **Adhesion** (cross cut tape stripping) 100 / 100
- **Solvent resistance** no change
- **Bayer Ratio** 3.8

**NSC-5508 physical properties**

- **% solid** 26-27
- **viscosity (mPa.s)** 5.5-6.5
- **specific gravity** 1.03-1.04
- **pH** 3-4
- **appearance** Pale yellow colloidal solution
NSC-5508  technical information

〈Recommended coating procedure〉

washing
- washing with aqueous neutral detergent solution in ultrasonic bath sonicator
  → washing with running water → draining

coating
- Coating room temp : 20±2 ℃
- Humidity : less than 50 %RH
- Coating liquid temp : 15 - 20 ℃
- Extract speed : 20 - 30 cm / min

pre-curing
- 80  ℃ × 10 min

Curing
- 120  ℃ × 60 min

cooling
- To room temperature
  - Clean up the coating room, removing dust in the air
  - Continuous circulating filtration by using the filter with less than 1 micrometer pore size
  - Removing dust, appropriate ventilation
  - Exhaust duct, hot air circulation, uniformly heating

〈Applicable thinner〉
- NSC-TH-36
  In the case of loss of low boiling solvents by vaporization. Over dilution may cause undesirable effects.

〈Packing〉
- NSC-5508  18kg    UN certified poly-drum

〈Storing〉
- Tightly sealed, store in cool and dark area. Before use, warm to room temperature.

〈Cautionary statement〉
- Flammable - keep fire away. need appropriate ventilation
- In the case of eye contact, washing with plenty of running water and ask physician immediately.
- In the case of awful feelings caused by inhalation of vapor or accidental ingestion, ask physician immediately.
- In the case of skin contact, washing with plenty of running water immediately.
- If you feel itch or inflammation, ask physician.

contact information