NSC-5140

≪Features≫
NSC-5140 is the coatings especially for high hardness.

(1) Excellent anti-scratch property・・・・・・・・・・・・・・・・・・・・ No significant decrease of anti-scratch property has been observed during prolonged use
(2) Superior abrasion resistance・・・・・・・・・・・・・・・・・・・・ Δhaze less than 1%
(Taber abrasion test: CS-10F 500g load ×100 lotations)
(3) Good finish without orange peel skin, crack nor chalking
(4) Excellent weather resistance・・・・・・・・・・・・・・・・ No change by QUV test
(5) Relatively long shelf life・・・・・・・・・・・・・・・・・・・・ Stable more than 3 months in a refrigerator

≪Typical applications≫
For optical lens, CR-39, Nylon, PU and PC
for PC, primer treatment will be required

≪NSC-5140 cured film properties≫
- Ant-scratch property: 1kg load ×100 reciprocation (steel wool #0000) no scratch
- Taber abrasion test (ΔHaze): CS-10F 500g load ×100 lotations less than 1%
- Adhesiveness (cross cut tape stripping test) 100/100
- Hot water resistance (100degrees C ×30min) no change
- Appearance
- Adhesiveness (cross cut tape stripping) 100/100
- Weather resistance no change
- Solvent resistance stable more than 144hrs by QUV test

≪NSC-5140 physical properties≫
- % solid: 33%
- Viscosity: 6.0mPa·s
- Specific gravity: 1.04
- pH: 4.2
- Appearance: Bluish purple colloidal solution
**NSC-5140 technical information**

- **Recommended coating procedure**
  - **Washing** with aqueous neutral detergent solution (sonification) → washing with running water → draining
  - **Coating**
    - Coating room temp: 20±2°C
    - Humidity: less than 50%RH
    - Coating liquid temp: 15~20°C
    - Hoist speed: 10~20cm/min
  - **Pre-curing** 80°C × 10min
  - **Curing** 110~120°C × 1.5~2 hrs
  - **Cooling** To room temperature

- **Applicable thinner**
  - PGME/ EtOH = 1/9~2/8
  - In the case of loss of low boiling solvents by vaporization, over dilution may cause undesirable effects.

- **Packing**
  - NSC-5140 10kg 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**

**Taber abrasion test**
- CS-10F 500g load × 100 lotations