

**UVEXS Incorporated**

1260 Birchwood Drive, Sunnyvale, CA 94089
Telephone (408) 734-4402 Fax (408) 734-4502
www.uvexs.com

The brightest ideas in UV curing

422 SERIES

UV Curable Texture Coatings

DESCRIPTION

A durable series of clear coatings for screen-printing applications where cosmetic effects of the finish are desired. They are single part formulas, which contain no solvents. Fully cures when exposed to high intensity UV energy, or low intensity UV under a nitrogen purged environment. Excellent gloss or matte finishes with standard cure conditions. Unique or specialized finishes are possible using the Linde nitrogen texturing process. The coatings are intended for polycarbonate sheet stock and may also be used on treated polyester. Cured coatings are abrasion and chemical resistant.

CURE SCHEDULE

Expose with a medium pressure mercury vapor type lamp operating at a minimum of 150 watts per inch input power.

Minimum intensity: 25 mW/cm² @ 254 nm
100 mW/cm² @ 365 nm
Belt speed: varies with intensity

APPLICATION

Screen mesh: 280-500 monofilament polyester
Squeegee: 70-90 (shore A)
Coating thickness: 0.5 – 1.0 mils, typical
Packaging: quart or gallon containers

STORAGE AND HANDLING

422 Series coatings should be stored in darkness at 50-80°F. Shelf life is warranted for a minimum of 6 months. Avoid contact with skin and eyes. In case of skin contact wash thoroughly with soap and water as directed on the MSDS. Use only in an adequately ventilated area.

PROPERTIES

Base resin: acrylate
Solids: 100%, no solvents
Components: one
Appearance:
 422C: gloss clear
 422F: matte clear
Specific gravity: 1.1
Flash point: >200°F
Viscosity*:
 422C: 1000 cps
 422F: 6000 cps
Coverage: approx. 1800 sq. ft/gal
@ 1 mil thickness

*Brookfield LVF, 21°F

PACKAGING

The 422 series coatings are available in quart and gallon containers.