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Hauthane L-3415 (Experimental*)

- DESCRIPTION:** A VOC-free, water-borne, UV-curable polyurethane dispersion.
- SUGGESTED USES:** Hauthane **L-3415** is designed for UV-cured wood and plastic topcoat applications where highly chemical- and abrasion-resistant films are required. Potential end-use applications include automotive plastics, kitchen cabinets and wood flooring.
- CHARACTERISTICS:**
- < VOC-free, APEO surfactant free
 - < Excellent chemical and stain resistance
 - < Forms durable, films under ambient or force-dried conditions
 - < Superior abrasion resistance
 - < Fast water-release properties
- APPLICATION:** **L-3415** may be applied by spray or gravure methods. Films must be dried completely before UV energy cure. UV irradiation is required to attain optimal film properties, but un-cured coating films are durable enough for handling or walking on prior to curing.
- CURING:** **L-3415** must be air-dried, or oven dried (temperature: 150 – 170° F; dwell time: 10 minutes) to remove water from the film prior to UV exposure. A photo-initiator must be incorporated into the coating formulation for effective curing. See starting point formulations for suggestions. Exposure guidelines: MPMA lamp - 300 watts/in², 2.0 – 3.0 second dwell time.

PHYSICAL PROPERTIES

SOLIDS	35± 1%
VISCOSITY	20-200 cps
pH	5.0-7.0
DENSITY	8.7 lbs/gal
SOFTENING POINT	Uncured: 280°F Cured: >500°F
VOC CONTENT	0 g/l (as supplied) 0 g/l (less water)
SWARD HARDNESS	After UV curing - 43

*TSCA - Pre-Manufacture Notification (PMN) in process.