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Hauthane L-3685 (Experimental)

- DESCRIPTION:** A water-borne, UV-curable, polycarbonate-based polyurethane dispersion.
- SUGGESTED USES:** Hauthane **L-3685** is designed for UV-cured plastic topcoat applications where exterior weathering durability, abrasion-resistant and chemical-resistant films are required. Potential end-use applications include automotive plastics, kitchen cabinets and wood flooring.
- CHARACTERISTICS:**
- < Excellent chemical- and stain-resistance
 - < Superior humidity resistance
 - < Forms durable, films under ambient or force-dried conditions
 - < APEO-free
 - < Fast water-release properties
 - < Contains n-methyl pyrrolidone (NMP) co-solvent
- APPLICATION:** **L-3685** 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 prior to curing.
- CURING:** **L-3685** 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	20-500 cps
pH	7.5-10.0
DENSITY	8.8 lbs/gal
SOFTENING POINT	Uncured: 290 Cured: >500°F
VOC CONTENT	51 g/l (as supplied) 137 g/l (less water)
SWARD HARDNESS	After UV-curing - 64