



**In Union,
there is strength.**



UNITHANE IC-806 SF

Revision Date: 06/21

Reviewed:06/21/21

RECOMMENDED FOR USE WITH:

Automotive Interiors - Non-Leather, Paint and Coating Resins, Graphic Arts, Flexible Substrates, Adhesives

Unithane IC-806 SF is a solvent free, uniquely soft, low VOC, medium gloss, APEO free, waterbased polyurethane dispersion; requiring soft feel, flexibility and automotive grade properties. Unithane IC-806 SF also displays low tack when used as heat seal adhesive. Specifically designed for use in a formulated coating for graphic arts, metal, paint, textiles and selected plastics.

SPECIAL FEATURES

Solvent Free (SF), Low VOC (< 50 g/L)

APPLICATION TYPES

Interior, Exterior, Automotive, Aircraft, Synthetic Leather, Paint, Graphic Arts, OPV, Paper, Textiles, Plastics - Flexible, Plastics - Rigid, Adhesive/Primer

TYPICAL SPECIFICATIONS

TOTAL SOLIDS: 34 - 36

pH: 8.0 - 10.0

VISCOSITY @ 25 DEGREES C: 10 - 500 cps

VOC (GRAMS/LITER): 13-14

VOC (% OF TOTAL WEIGHT): 1.0-1.5

SPECIFIC GRAVITY: 1.01-1.04

APPEARANCE: Semi-translucent

GLOSS @60°: 70-100

FREEZE/THAW CYCLES D2243: 3

SHELF LIFE: Maximum 12 months

HARMONIZE TARIFF NUMBER: 3909.50.6000

*note: 5= no damage, films dried for 15 minutes at 80°C,
then equalized at room temp for 7 days*

WATER: 5

ACETIC ACID: 5

AMMONIA: 5

METHYL ETHYL KETONE: 1

2-PROPANOL: 1

TOLUENE: 4

GASOLINE: 5

TYPICAL FILM PROPERTIES

TENSILE (D-882): 4510

TENSILE AT 100% ELONGATION: 547 psi

ELONGATION (D-882): 919%

COLD CRACK (ISO 17233): below -30°C

SOFTENING POINT: 155°C

PENCIL HARDNESS (D-3363): 4H

SWARD HARDNESS (D-2134): 15

UV RESISTANCE (D-4587): No damage (1000 hours at 340nm)

IMPACT RESISTANCE (D-2794): No damage at 160 psi Direct or
Reverse

TABOR ABRASION (D-4060): 40 mg loss (CS-10, 1000g, 1000
cycles)

MANDREL BEND (D522): Pass 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1

DRY TIME (D-5895): 42s

HYDROLYSIS RESISTANCE (200 HOURS, 70°C, 95% RH): Retained
64% of Tensile Properties

COLD ROLL STEEL - UNPOLISHED: 5B

ALUMINUM - UNTREATED: 5B

BRASS - UNTREATED: 5B

ABS - UNTREATED: 5B

POLYCARBONATE - UNTREATED: 0B

NYLON - UNTREATED: 5B

HDPE - UNTREATED: 0B

Certified to ISO-9001: 2015

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