



**In Union,
there is strength.**



UNITHANE IC-910 NF

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-910 NF is a NMP free, soft, low VOC, high gloss, APEO free, waterbased polyurethane dispersion; with exceptional adhesion, flexibility and automotive grade properties.

Specifically designed for use in a formulated primer coat for concrete, graphic arts, textiles and selected plastics.

SPECIAL FEATURES

NMP-Free (NF), Low VOC (< 100 g/L)

APPLICATION TYPES

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

TYPICAL SPECIFICATIONS

TOTAL SOLIDS: 31 - 33

PH: 7.0 - 8.0

VISCOSITY @ 25 DEGREES C: 10-500 cps

VOC (GRAMS/LITER): 55-65

VOC (% OF TOTAL WEIGHT): 5.5-6.5

SPECIFIC GRAVITY: 1.01-1.04

APPEARANCE: Semi-translucent

GLOSS @60°: 80 - 100

FREEZE/THAW CYCLES D2243: 0

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: 3

AMMONIA: 2

METHYL ETHYL KETONE: 1

2-PROPANOL: 2

TOLUENE: 4

GASOLINE: 5

TYPICAL FILM PROPERTIES

FILM APPEARANCE AFTER CURING: Clear

TENSILE (D-882): 3850 psi

TENSILE AT 100% ELONGATION: 600 psi

ELONGATION (D-882): 1000%

COLD CRACK (ISO 17233): below -30°C

SOFTENING POINT: 130°C

PENCIL HARDNESS (D-3363): <6B

SWARD HARDNESS (D-2134): 2

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

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

TABOR ABRASION (D-4060): 13 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): 35 minutes

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

COLD ROLL STEEL - UNPOLISHED: 5B

ALUMINUM - UNTREATED: 5B

BRASS - UNTREATED: 5B

ABS - UNTREATED: 5B

POLYCARBONATE - UNTREATED: 5B

NYLON - UNTREATED: 5B

HDPE - UNTREATED: 0B

Certified to ISO-9001: 2015

Union Specialties, Inc. 3 Malcolm Hoyt Drive, Newburyport, Massachusetts USA

Phone: 978-465-1717 Fax: 978-465-4194 email: union@unionspecialtiesinc.com www.UnionSpecialtiesInc.com

Copyright © 2013-2014 Union Specialties, Inc. All rights reserved, all pages.

Disclaimer: The information and data contained herein are believed to be correct. However, we do not warrant either expressly or by implication the accuracy thereof.