



UR-80LV

LOW VISCOSITY LIQUID POLYURETHANE

NORMAC **UR-80LV** is a low viscosity liquid paste, room-temperature curing 80A Polyurethane coating designed for lasting surface protection and to repair existing substrates against wear, abrasion, and corrosion. Designed using PT-MEG Polyether with low-free technology which virtually eliminates isocyanate exposure. Working characteristics include self-leveling and or trowelable type applications requiring extended flowability. Packaged for easy on ratio mixing using our dual cartridge dispenser or hand mixing can kits. Used with primer, this material will adhere well to rubber, metal, polyurethane, polyurea, and concrete substrates.



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APPLICATION AREAS

- Rubber linings/sheeting
- Conveyor clip joint protection
- Marine fenders
- Chutes, screens, wear plates
- Storage hoppers
- Conveyor belts and flights
- Pumps and impellers
- Pipes, fluid handling equipment
- Shock absorbers
- Deburring machine
- Guide bearing

PROPERTIES

Prepolymer: PTMEG-Low Polyether

Hardness Shore A: 80+/-5

Solids: 100%

VOC's: Zero

Mix ratio volume: 2A:1B

Mix ratio weight: 100A:47B

Colour: Black, others available

Shelf Life: +2 years unopened

Storage: 23°C (73°F) dry, away from sunlight

Tensile strength ASTM D412: 12.65MPa (1835psi)

Elongation ASTM D412: 490%

Tear Strength ASTM D624 Die C: 47.81kN/m (273lbf-in)

Taber Abrasion 1kg, 1000cy, H18 ASTM D4060-19: 35mg loss

Dry/wet operating temperature: -56°C (-70°F) to 93°C (200°F)

Immersion operating temperature: Max 60°C (140°F)

Chemical Resistance: usually pH 3 - 11

Mix density: 1.042g/cm³ (.038lb/Cl)

Coverage: 34 sqm @ 25 micron/kg (166 sqft/lb @ .001")

Per Unit: 300 x 150 cartridge, 0.12sqm @ 3mm (1.3sqft @ 1/8")

600 x 300 cartridge, 0.24sqm @ 3mm (2.6sqft @ 1/8")

750g Can kit, 0.2sqm @ 3mm (2sqft @ 1/8")

APPLICATION DATA (23°C / 73°F)

Precondition material: > 20°C (68°F)

Method: Trowel, brush, roller

Pot Life: 10 minutes

Buff to level: > 3 hours

Light Loading: minimum 12 hours

Ultimate Cure: 5 days

Overcoat: < 15 minutes without additional surface preparation.

Refer to "Surface Preparation" when overcoat time has expired.

PRIMER : SUBSTRATE

NP-8400: Rubber, Polyurethane, Polyurea

NP-9500: Metal, Polyurethane, Fiberglass

NP-9600: Immersion service and Aluminum, Stainless

NP-100/200: Concrete

NA-900/600R: Rubber, Concrete/PVC belt

KIT PACKAGING

UR8L1.....Cartridge 300 x 150ml (486g), requires manual dispenser tool

UR8L2.....Cartridge 600 x 300ml (985g), requires powered dispenser tool

UR8LQ.....Quart Can Kit 750 gram A&B

UR8LG.....Gallon Can Kit 3kg A&B

Cartridge includes one mixing nozzle.

SAFETY

See the NORMAC UR-80LV product SDS. Strict adherence to regional safety regulations must be practiced.

SURFACE PREPARATION

All substrates must be free from existing coatings, dry, clean, and structurally solid. Remove dirt and dust by sweeping or by dry compressed air. Contaminants like oil and grease can be cleaned using a lint free rag and a suitable solvent. When adequate surface preparation cannot be achieved, adhesion testing is done to confirm acceptable adhesion strength.

METAL

Includes ferrous and nonferrous. Radius all sharp edges, grind uneven seam lines, and remove weld splatter. For maximum adhesion, grit-blast to standard SSPC-SPI10 near white including a 50 micron (.002") depth profile. Other forms of cleaning and profiling are possible like slow speed grinding with aluminum oxide disks but expect lower adhesion strength. Specialty hardened metals require adhesion testing to ensure results. Cast and previously used metal should be checked for contamination and may require additional cleaning. Either NP-9500 or NP-8500 primer must be used. NP-9600 wash primer is used as a first coat for immersion service and for special alloys including aluminum and stainless.

ELASTOMERS

Includes cured rubber, polyurethane, polyurea, and PVC belting. De-gloss using abrasive blast cleaning or power tool cleaning methods. Include a minimum depth profile of 25 micron (.001"). Buffing or sanding using slow speed rotation by wire wheel, or 36 to 50 grit aluminum oxide disks can achieve results. Avoid melting or burning the elastomer surface during preparation as this will cause adhesion failure. NP-8400 primer is used for bonding to cured rubber, polyurethane, and polyurea. NA-600R cold bond cement is used for bonding to PVC belting.

CONCRETE

Uneven and blow-holed surfaces should be repaired and allowed to cure. Grit-blasting or grinding to achieve a 50 micron (.002") depth profile. New concrete should be cured for a minimum of 28 days and contain less than 15% moisture. Concrete is sealed using NP-100/200 primer to prevent outgassing and to maximize adhesion. NP-100/200 primer can be mixed with sand to make a high strength repair mortar.

OTHER

Includes carbon fiber, fiberglass, and wood. De-gloss using abrasive blast cleaning or power tool cleaning. Include a minimum depth profile of 25 micron (.001"). NP-9500 primer is used to maximize adhesion. Wood is porous and may not require primer.

APPLICATION CONDITIONS

Ambient and surface temperatures should be similar and between 10°C to 45°C (50°F to 113°F). Ensure temperatures are 3°C (5°F) above the current dew point with relative humidity under 85%. It is possible to apply outside this temperature range but expect pot-life and cure times to vary considerably. During colder temperatures Pt A (resin) may become solid or present a waxy appearance. Before mixing, slowly warm Pt A (resin) back to a clear liquid above 20°C (68°F). Always protect the surface from contaminants and direct sunlight.

APPLICATION INSTRUCTIONS

1. Prime substrate. See primer TDS for application instructions
2. Build to desired thickness after the primer is touch dry
3. Additional layers can be applied within the overcoat window
4. Clean up immediately using a suitable solvent
5. Repairs can be done after lightly abrading and cleaning the area
6. Buffing to level the surface can be accomplished using a slow speed sander

CAN KIT MIXING

1. Material preconditioned temperature is >20°C (68°F)
2. Empty contents of part B (curative) into part A (resin).
3. For large kit sizes, power mix using propeller type jiffy mixer and power drill.
4. Mix thoroughly until a uniform streak free consistency has been achieved.
5. Avoid introducing air into the mixture.
6. Ensure mixing away from sides and bottom is done adequately.

DUAL CARTRIDGE MIXING

1. Material preconditioned temperature is >20°C (68°F)
2. Remove nut and cap seal. Install mixing nozzle using nut. Cut tip for desired material flow
3. Install dual cartridge into dispensing gun. Dipose initial material (6") to ensure proper mixing
4. Cartridges that are not fully depleted can be re-sealed and used again with a new mixing nozzle



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The directions for the use of our products are based upon tests believed to be reliable but no warranty is given. Since conditions for the use of this product are beyond the seller's control, all risks are assumed by the user. Please contact your local agent or call Normac Adhesive Products Inc. for further assistance.