



UR-45T

HIGH BUILD MULTI-PURPOSE

UR-45T is a trowelable, room-temperature curing polyurethane putty designed for lasting surface protection and to repair existing substrates against wear, abrasion, and corrosion. Excellent sag resistance with up to 12mm (0.5") thickness on vertical surfaces. 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, and concrete substrates while offering sound deadening, scratch, and non marking protection.



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APPLICATION AREAS

- Discharge and Dredge hose • Conveyor belts and flights
- Conveyor clip joint protection • Marine fenders • Pulley lagging
- Rubber linings/sheeting Pipes • Fluid handling equipment
- Expansion joints • Gasket seals

PROPERTIES

Prepolymer: PPG-LF Polyether

Hardness Shore A: 45+/-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: 2.77 MPa (402 psi)

Elongation ASTM D412: 651%

Tear Strength ASTM D624 Die C: 22.07 kN/m (126 lb-in)

Taber Abrasion 1kg, 1000cy, CS-17 ASTM D4060-19: 0.6 g loss

Operating Temperatures: -56°C (-70°F) to 93°C (200°F)

Mix density: 1.050 g/cm³ (.038lb/Cl)

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

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 @ 1/8" (2sqft @ 1/8")

APPLICATION DATA (23°C / 73°F)

Precondition material: 20C (68F)

Recoat: < 1 hour

Pot Life: 20 minutes

Buff Repair: 12 hours

Light Duty Service: 24 hours

Ultimate Cure: 5 days

PRIMERS : SUBSTRATE

NP-8400: Rubber, PVC belt

NP-9500: Metal

NP-100: Concrete

NA-900: Rubber, PVC belt, Concrete

KIT PACKAGING

Dual Cartridge 300 x 150ml (486g), uses a hand dispensing gun.

Dual Cartridge 600 x 300ml (985g), uses a pneumatic dispensing gun.

Each cartridge is packaged including one mixing nozzle, sealed in a plastic bag.

Can Kit 750 gram A&B.

SAFETY

See the NORMAC UR-45T product SDS. Strict adherence to regional safety regulations must be practiced.

SURFACE PREPARATION

Before priming, 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 cleanin

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"). Grinding 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.

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 primer to prevent outgassing and to maximize adhesion. NP-100 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). Always maintain temperature 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 dry
3. Additional layers can be applied within the recoat 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. Pour hardener (B) into resin (A) and hand mix thoroughly for 2 minutes
3. For large kit sizes, power mix using propeller type jiffy mixer and electric drill
4. Mix until a uniform 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. Dispose 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



normac

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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.