



NC-80

CASTABLE POLYURETHANE

NORMAC **NC-80** (formerly NR-806P) is a room-temperature curing (80A) two part castable polyurethane system. Designed using PTMEG Polyether chemistry with less than 0.1% free monomer which virtually eliminates isocyanate exposure. Used to reduce small particle abrasion in dry, wet, and immersion environments. Easily processed, application areas include large open surfaces to small intricate molds. NC-80 has proven durability and performs in a wide variety of wear applications. Our application guide is available upon request.



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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 sellers control, all risks are assumed by the user. Please contact your local agent or call Normac Adhesive Products Inc. for further assistance.

KEY BENEFITS

- Seamless
- Corrosion resistance
- Reduced vibration and noise
- Bonds direct to substrate with primer
- Easily refurbished

PROPERTIES

Prepolymer: PTMEG- Low Polyether

Solids: 100%

VOCs: Zero

Hardness Shore A: 80 +/-5

Colour: All standard

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

Shelf Life: 2 years unopened

Tensile Strength: ASTM D412 ~ 18.33 MPa (2658 psi)

Elongation: ASTM D412 ~ 396%

Tear Strength: ASTM D624 Die C ~ 70.05 kN/m (400lb/in)

Abrasion Taber 1kg, 1000cy, H18: ASTM D4060-19 ~ 43 mg loss

Impact Resistance: ASTM D2794 ~ >28.02 kN/m (160 pli)

Bashore Resilience: ASTM D2632 ~ 42%

Dry/wet Operating Temperature: -5°C (-70°F) to 93°C (200°F)

Immersion Operating Temperature: Max 60°C (140°F)

Chemical Resistance: Usually pH 3 - 11

Shrinkage: Approx. 1%

Specific Gravity: 1.020gm/cc

Specific Volume: 25 cu.in / lb

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

APPLICATION DATA (23°C / 73°F)

Precondition Pt A resin: +43°C (110°F)

Method: Hand batch

Ratio by weight: 100A: 12B

Pot Life: 30 minutes

Demold: < 24 hours

Ultimate cure: 7 days

SURFACE PREPARATION

Grit-blast using standard SSPC-SPI0 near white including minimum 50 micron (0.002") angular depth profile for maximum adhesion or mechanically roughen using standard SSPC-SPI1 to achieve desired adhesion strength. Primers must always be used.

Primers:

NP-9500: Metal, Polyurethane, Fiberglass

NP-9600: Immersion and or Aluminum, Stainless alloys

NP-8400: Rubber, PVC belt, Polyurethane

NP-100/200: Concrete

NA-900 : Rubber, Concrete

KIT PACKAGING

NC80Q..... 1kg/ Quart/ 2.2lbs

NC80G..... 4.48kg/ Gallon/ 10lbs

NC80-5.....22kg/ 5 gallon/ 48.5lbs

NC80-55.....229kg/ 55 gallon/ 505lbs

SAFETY

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