



## NC-90

### CASTABLE POLYURETHANE

NORMAC **NC-90** (formerly NR-906) is a room-temperature curing (90A) 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. When extra flowability is required the 90 durometer allows for an increased flow of materials while maintaining its abrasion resistant elastomeric qualities. 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:** 90 +/-5

**Colour:** All standard

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

**Shelf Life:** 2 years unopened

**Tensile Strength:** ASTM D412 ~ 38.40 MPa (5570 psi)

**Elongation:** ASTM D412 ~ 427%

**Tear Strength:** ASTM D624 Die C ~ 90.02 kN/m (514lbf-in)

**Abrasion Taber 1kg, 1000cy, H18:** ASTM D4060-19 ~ 93mg loss

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

**Bashore Resilience:** ASTM D2632 ~ 42%

**Dry/wet Operating Temperatures:** -56°C (-70°F) to 93°C (200°F)

**Immersion Operating Temperature:** up to 60°C (140°F)

**Chemical Resistance:** usually pH 3 - 11

**Shrinkage:** Approx. 1%

**Specific Gravity:** 1.017gm/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: 30B

**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

NC90Q..... 1kg/ Quart/ 2.2lbs

NC90G..... 5kg/ Gallon/ 11lbs

NC90-5.....25kg/ 5 gallon/ 55lbs

NC90-55.....266kg/ 55 gallon/ 586.4lbs

#### SAFETY

See the NORMAC NC-90 product SDS. Strict adherence to regional safety regulations must be practiced.