



NC-90

CASTABLE POLYURETHANE

NORMAC NC-90 (formerly NR-906) is a room-temperature curing castable polyurethane system. Designed primarily to reduce small particle abrasion in both wet and dry 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.



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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 proper primers
- Easily refurbished

TECHNICAL DATA:

Prepolymer: PTMEG TDI Ether

Solids: 100%

VOCs: Zero

Hardness Shore A: 90 +/-5

Mixed Density: 1.017 g/cm³ (.037lb/Cl)

Colour: Standard, custom colours available

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 (514 lb-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%

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

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

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

Transportation: DGR

APPLICATION DATA (23°C / 73°F):

Processing: Hand batch

Mix Ratio by weight: 100A: 30B

Processing temp: Pt A 43°C (110°F) Pt B 23°C (73°F)

Pot Life: 30 minutes

Demold Time: 12 to 24 hours

Light duty service: 24 hours

Ultimate cure: 5 days

SURFACE PREPARATION - REFER TO APPLICATION GUIDE

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 or Polyurethane

NP-9600: Metal immersion with NP-9500

NP-100: Concrete

AVAILABLE KIT SIZES:

- 1 kg / 2.2 lbs
- 5 kg / 11 lbs
- 25 kg / 55 lbs
- 266 kg / 586.4 lbs

SAFETY

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