



# COATLOK™ U-790NH

## TECHNICAL DATA SHEET

Coatlok™ H-790NH is an aromatic, two-component polyurea/polyurethane elastomer. This system is the product of a reaction between resin consisting of amine and polyol with diphenylmethane diisocyanate (MDI) prepolymer. With its fast reactivity, the product can be applied to horizontal and vertical surfaces.

Common Uses: Reservoirs, ponds, basins, secondary containment, geo membranes, tunnels & below grade waterproofing.

| PHYSICAL PROPERTIES |                 |                 |              |
|---------------------|-----------------|-----------------|--------------|
| Tensile Strength    | 1500 – 1600 psi | 10.3 – 11.0 Mpa | ASTM D 412 C |
| Elongation          | 600 – 750%      |                 | ASTM D 412 C |
| Shore A Hardness    | 80 – 90         |                 | ASTM D 2240  |
| Shore D Hardness    | 30 – 35         |                 | ASTM D 2240  |
| Tear Resistance     | 300 – 350 pli   |                 | ASTM D 624   |

| LIQUID COMPONENT PROPERTIES*                |                       |   |
|---|-----------------------|---|
| PROPERTY                                    | U-290-A               | H-790NH B                               |
| Color                                       | Yellow                | Transparent pale yellow, can be colored |
| Viscosity @ 77°F (25°C)                     | 900 – 1400 cps        | 500 – 800 cps                           |
| Specific Gravity @ 77°F (25°C)              | 1.07 – 1.09           | 1.00 – 1.05                             |
| Shelf Life of unopened drum properly stored | 6 months              | 6 months                                |
| Storage Temperature                         | 59 – 86°F (15 – 30°C) | 59 – 86°F (15 – 30°C)                   |
| Mixing Ratio (volume)                       | 1:1                   | 1:1                                     |

\*See SDS for more information.

| REACTIVITY PROFILE     |  |
|------------------------|--|
| Gel Time @ 77°F (25°C) |  |
| 8 – 12 seconds         |  |

| RECOMMENDED PROCESSING CONDITIONS*          |                 |                   |
|---|-----------------|-------------------|
| Initial Primary Heater Setpoint Temperature | 150°F           | 65°C              |
| Initial Hose Heat Setpoint Temperature      | 150°F           | 65°C              |
| Initial Processing Setpoint Pressure        | 1500 – 2500 psi | 10342 – 17237 kPa |
| Substrate & Ambient Temperature             | > 23°F          | > -5°C            |

\*It is the sole responsibility of the applicator to process and apply Coatlok H-790NH within specification.

**General Requirements:** Equipment must be capable of delivering the proper ratio (1:1 by volume) of isocyanate and resin at adequate temperatures and spray pressures. Substrate must be at least 5°F above dew point, with a maximum relative humidity of 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the product. This product must not be used when the continuous service temperature of the substrate or product is below -10°F (-23°C) or above 140°F (60°C).

**Disclaimer:** The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.