



INNOVATION IN EVERY COAT.™

HYDRO-ZINC®

INTERIOR AND EXTERIOR CORROSION PROTECTION
FOR STEEL POTABLE WATER TANKS





A PRIMER BUILT FOR LONGEVITY

Hydro-Zinc is formulated to protect your most valuable assets, and keep them protected for longer. As the most commonly used primer for water storage tanks, Hydro-Zinc has been extensively tested in the lab and in the field, showcasing unprecedented performance and reliability.

Since its introduction in 1997, Hydro-Zinc has been applied to over 23,000 water tanks, helping to extend the service life of each tank and provide the lowest life cycle cost for utility companies and municipalities throughout North America.

Hydro-Zinc showcases the best corrosion protection in the industry while being contractor- and budget-friendly. Plus, every gallon of Hydro-Zinc sold is backed by unmatched customer and technical support, through every phase of your project.



FEATURES AND BENEFITS

- Increased service life
 - » Provides an estimated 45% more time in service compared to a 2-coat epoxy system¹
- Lower life cycle cost
- Galvanic protection
- Tenacious adhesion
- Easy application and fast cure
- Low temperature application (35°F, 2°C)
- Unlimited maximum recoat window
- NSF/ANSI/CAN Std. 61 certified and meets extraction requirements of NSF/ANSI/CAN 600
- Meets AWWA D102 Standards



HYDRO-ZINC COATINGS

Series 91-H₂O – Two-component, moisture-cured, aromatic urethane zinc-rich primer

Series 94-H₂O – Single-component, low VOC, moisture-cured, aromatic urethane zinc-rich primer

91-H₂O DATASHEET

94-H₂O DATASHEET

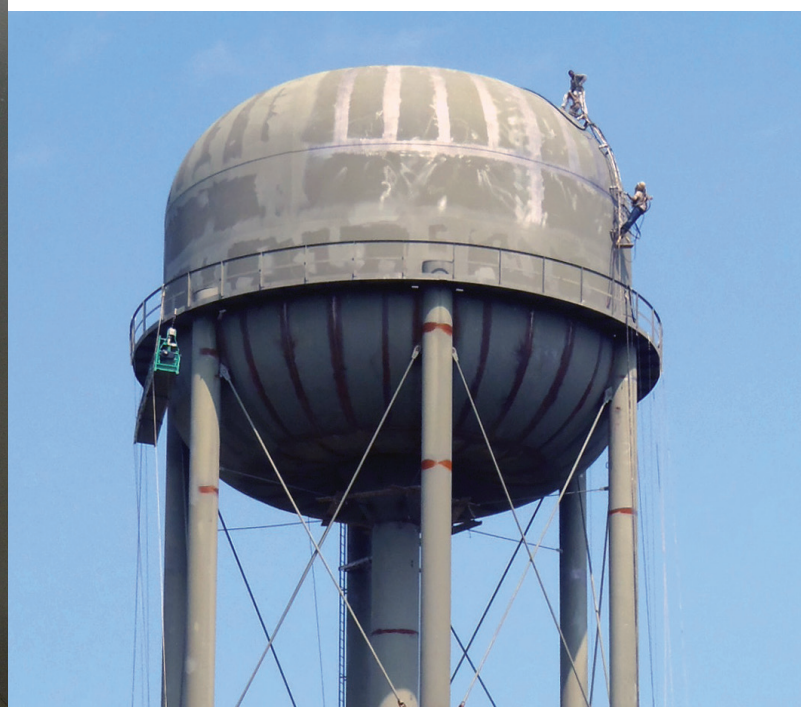


THE HYDRO-ZINC PRODUCTS

Series 91-H₂O and Series 94-H₂O Hydro-Zinc are zinc-rich, moisture-cured urethane primers, certified for use on potable water tanks. These primers provide unmatched corrosion protection to the interior and exterior of steel water tanks, eliminating the need and added cost of two

different primers. Hydro-Zinc also cures quickly and can be topcoated at surface temperatures as low as 35°F (2°C).

Series 91-H₂O is a two-component primer while Series 94-H₂O is a single-component primer. Both products, especially when used as part of a full high-performance coating or lining system, help give water storage tanks the longest service life possible, delivering the lowest life cycle cost and the most sustainable solution on the market today.





REGULATION FRIENDLY

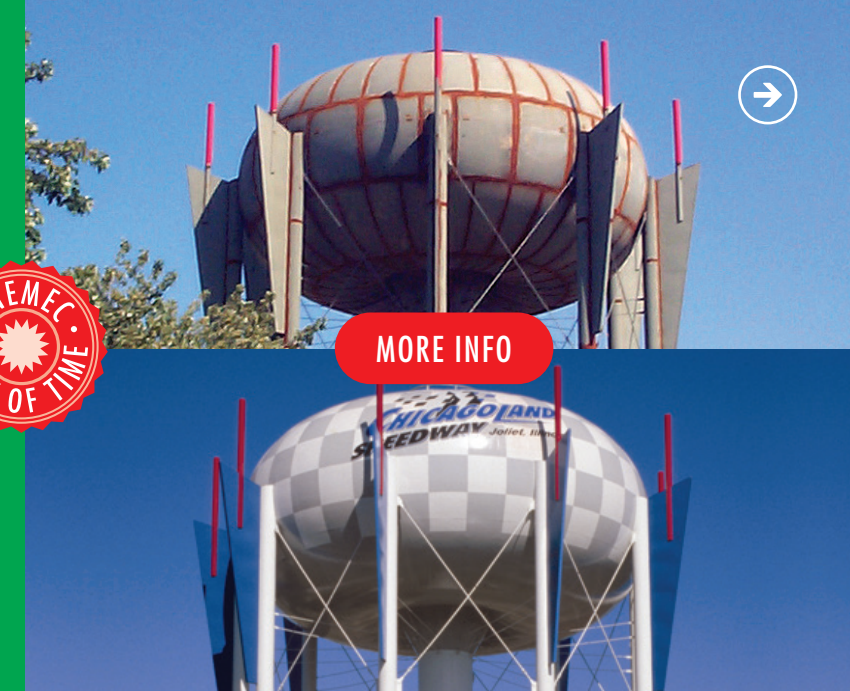
The properties of Hydro-Zinc make it an excellent choice for priming both sides of steel plates in the largest fabrication shops and for subsequent use in the field after tank erection. It is compliant throughout North America with versions featuring low hazardous air pollutant (HAP) levels and less than 100 grams per litre volatile organic compounds (VOCs).



JOLIET, IL • Adjacent to the Chicagoland Speedway and named the SPFA's Tank of the Year in 2001, this one-million-gallon water tank garnered a lot of attention after using a Tnemec coatings system. When erected in 2000, the interior and exterior steel received a spray-applied prime coat of Series 91-H₂O Hydro-Zinc, followed by a high-performance intermediate and finish coat. After two decades in service, Joliet's water tank is a long way from the finish line, still standing tall and shining high above the racetrack.



[MORE INFO](#)

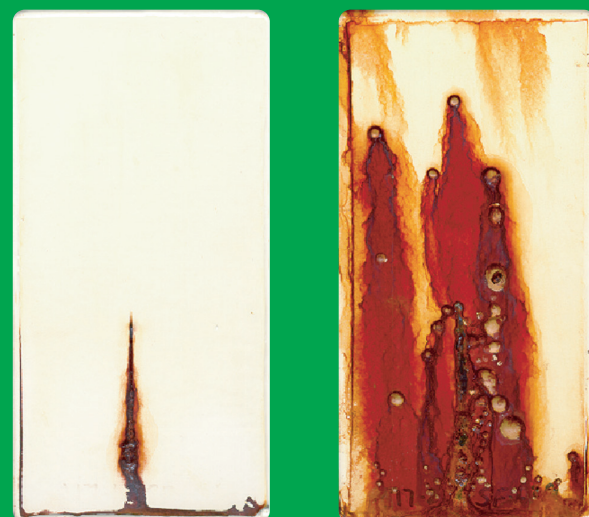


INSPECTIONS As the leading provider of coatings for water storage tanks, Tnemec has monitored field evaluations of its Hydro-Zinc primer since its first use. Divers performing inspections have described the interior surfaces as being in very good condition with coatings 99.9 to 100 percent intact². Many inspections performed more than a decade after the original applications have provided evidence that the existing coating systems have not deteriorated and continue to provide enhanced corrosion protection.

After years of evaluation and research, Hydro-Zinc was applied to its first water tank interior in 1997 and became the first zinc-rich primer to be certified in accordance with NSF/ANSI Std. 61. Since then, Hydro-Zinc primers have been applied to over 23,000 water tanks worldwide.

SALT SPRAY EXPOSURE TEST

Both panels were SSPC-SP10 abrasive blasted, coated and then placed in a salt fog cabinet (ASTM B 117). After 10,000 hours of Salt Spray (Fog) exposure, the panel primed with Tnemec's Series 91-H₂O (left panel) exhibited no failure on the plane surfaces and excellent protection at the scribe. The standard three-coat epoxy system on the right did not measure up nearly as well.



[MORE INFO](#)



ROSEMONT, IL • In need of coatings that would last after having been repainted twice in less than a decade, a high-performance Tnemec coatings system was chosen for this water tank in Rosemont, IL. In 2006, Hydro-Zinc was spray-applied to the exterior of the tank, followed by an acrylic polyurethane, then the rose design was applied with Tnemec's long-lasting fluoropolymer, HydroFlon. Protected with advanced coating technology, tanks like Rosemont will remain intact for years, even decades, with Hydro-Zinc underneath.





LOOKING FOR MORE INFORMATION ABOUT HYDRO-ZINC?

Reach out to a knowledgeable and
reliable representative near you.

FIND REP

1 NACE Paper No. 10673: Expected Service Life and Cost Considerations for Maintenance and New Construction Protective Coating Work.
2 Huron Shore Regional Utility Authority tank maintenance inspections.

Published technical data, instructions and pricing are subject to change without notice. Contact your Tnemec technical representative for current technical data, instructions and pricing. Warranty information: The service life of Tnemec's coatings will vary. For warranty, limitation of seller's liability and product information, please refer to Tnemec Product Data Sheets at tnemec.com or contact your Tnemec technical representative. © Tnemec Company, Inc. 2020 BROHZ