



Toro Rotor Coating

As an ongoing effort to meet the demands of harsh drilling conditions, Toro Downhole Tools has developed a line of Rotor Coatings to provide a technical solution for various drilling applications:

SR1

Our Standard Rotor Coating (SR1) is designed with a chromium on a steel substrate, for use in applications where corrosion is not a concern. This coating offers excellent performance and life in Water Base and Oil Base applications. Additionally, this type of coating performs very well in pneumatic applications with very little lubrication. SR1 is an excellent light duty coating with a life expectancy of 250+ hours *.

PR2

Our Premium Rotor Coating (PR2) is a proprietary Tungsten Carbide coating exclusive to Toro Downhole Tools. An alternative to chromium, this coating offers excellent protection in medium chloride applications. With superior wear properties, our PR2 coating far exceeds the operational life of chromium in Water Base and Oil Base applications. Additionally, this type of coating performs very well in pneumatic applications with very little lubrication. With a reduced coefficient of friction, PR2 also extends Stator life by reducing elastomer wear. PR2 is an excellent extended duty coating that does not require a stainless steel substrate, reducing the overall costs while providing a life expectancy of 500 – 600 hours *.

XR3

Our Extreme Rotor Coating (XR3) is an extreme Tungsten Carbide coating application proprietary and exclusive to Toro Downhole Tools for use in high corrosive applications. XR3 provides outstanding wear properties in the most severe drilling applications, whether Water Base, Oil Base or pneumatic applications with very little lubrication. XR3 has been formulated for extended use in Brine Water. With a coefficient of friction less than half of chromium, XR3 extends Stator Elastomer life unlike typical tungsten carbide coatings that significantly shorten elastomer life. As with our PR2, a stainless steel substrate is not required, reducing overall costs while providing a life expectancy of 700 – 1,000 hours *.

*Life expectancy will vary depending upon application, operation and maintenance. As with all drilling equipment, disassembly, cleaning, inspection and proper storage is recommended as soon as possible after use. Additionally, all Toro Rotor Coatings can be applied to Stainless Steel substrates for added rotor life and to reduced service and repair related costs.

Toro Rotor Coatings have been formulated and field tested to meet and exceed various harsh drilling conditions. Contact Toro Engineering Services for technical assistance and to determine the right type of Toro Rotor Coating for your application.



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