Three Great Coatings

Xylar 2 is the cornerstone of a generation of hard, cermet finishes. Almost twice as hard as the best organics, it offers a tough, sacrificial barrier to corrosion and wear.

Xylar 101 is a sealer/topcoat that enhances the corrosion resistance of Xylar 2. It is a dense, clear film that fills any surface pores on Xylar 2, and together they represent a breakthrough in coating technology — a thin-film barrier with extreme corrosion resistance.

Xylar 201 is a dry-film lubricant with a friction coefficient of approximately 0.06. Used by itself, Xylar 201 provides the slickest dry-lubricating surface available. As a topcoat with Xylar 2, it provides both low friction and extreme wear resistance.

Xylar solves corrosive problems off shore.

Whitford manufactures the world's largest, most complete line of fluoropolymer coatings. We sell in more than 50 countries. To find the Whitford office nearest you, please contact any of the following:

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When you think of:

- Abrasion
- Corrosion
- Erosion
- Friction

Think Xylar...

Whitford

Manufacturers of the largest, most complete line of fluoropolymer coatings in the world

The Problem	The Solution	The Application
Chemical Corrosion from acids, salts, sea water, photo compounds, fuels, and other oxidizing agents destroys literally billions of dollars of metal equipment each year. Pump impellers, process rolls, pillow blocks, brackets, and thousands of other parts are oxidized to failure by corrosives. Sometimes failure is as simple as a pit on the surface of a hydraulic piston that cuts a gland seal; in other cases, failure is total structural collapse.	**Xylar 2 and 2/101** are the building blocks to corrosion protection. Xylar 2 is a porous ceramic coating that is extremely hard and, with respect to structural metals, is chemically sacrificial. Applied to ferrous, aluminum, or other metals, it is "sacrificed" to a corrosive medium before the substrate is attacked. Xylar 101 is a sealer/topcoat that closes any surface pores of Xylar 2. The 1 to 1.5 mil (0.0254 to 0.0381 mm) combination provides an incredible 4,000+ hours of protection in ASTM B117 salt fog tests!	**Xylar 2** gives 300 to 400 hours of salt fog protection, or about 6,000 hours of protection when topcoated with Xylar 101. Recommended applications include pump impellers, turbine blades compressor housings, valve bodies, agitators, petrochemical reactor parts, paper machine components, exhaust stacks, marine hardware, equipment used in photo processing, or other parts that need thin film protection — at temperatures all the way up to 1,200°F/650°C.
Galvanic corrosion occurs when dissimilar metals are joined so that there is an electrically conductive path between them. Usually, failure occurs around points of contact such as fasteners and can lead to total loss of load-carrying capability. The classic example is the union between automotive bodies and aluminum kick guards that are mounted on the door sills; metal-to-metal contact between the body (steel) and the kick panels promotes corrosion of both.	**Xylar 2** cermet coating breaks the electrical path between dissimilar metal parts. It is hard (8H), simple to apply, and because it is so thin (1 to 1.5 mils) it does not interfere with most component tolerances. The high temperature stability of Xylar 2 (1,200°F/650°C) makes it ideal for engine applications where the electrical couple between dissimilar metals could result in corrosion.	**Xylar 2 and 2/101** are used to separate dissimilar metals in engine/generator applications, suspension mounts, air cylinders, electrical controls, industrial brakes and clutches, air pumps, reels, materials-handling equipment, industrial ovens, tubing systems, gear reducers, ball screws, governor systems, motor housing, and literally hundreds of other applications — at ambient or extreme temperatures.
Abrasion/erosion is the gradual loss of a substrate due to wear from a mating surface, harsh particles, or cavitation. On rotating parts, this results in imbalance and unexpected stresses on shafts and bearings. On static parts, it results in loss of strength and eventual failure.	**Xylar 2** cermet coatings provide an extraordinarily hard barrier shield against abrasive wear. By itself, Xylar 2 protects against coarse slurries, cavitation, stone pecking, or erosion from fly ash. Where release of abrasives is required, Xylar 2 can be topcoated with Xylar 201 to form a hard matrix film with unsurpassed release.	**Xylar 2** is used in abrasive applications such as furnace chutes, air ducts, grain-handling equipment, and numerous vehicle-underbody components where abrasive wear or stone pecking is common. The combination of Xylar 2/201 is preferred for applications where parts wear against each other, or where parts are dragged over abrasive media.
Friction is produced when two mating parts slide over each other. Even under light loads, momentary contact between the two surfaces causes minute asperities (surface projections) to weld together, then shear away. Also, rubbing contact generates heat — so much so that properties of both the metal parts and fluid lubricants can be damaged.	**Xylar 2/201** is an extremely hard dry-film lubricant with a friction coefficient of 0.06. No other sprayable coating system can match its wear characteristics or its temperature stability (600°F/315°C). Also, because this combination of coatings is thin — as thin as 1 mil — it can be used on precisely fitted parts without interfering with their tolerances.	**Xylar 2/201** performs better than any existing dry-film lubricating coating in bearing and wear applications such as power screws, gears, compressor rotors, clutch actuators, slides, and valves. It is also an excellent coating to use in lightly loaded conditions where "stick-slip" is a problem. Examples include handbrake components where aluminum slides against aluminum or stainless slides against stainless.