

# XYLAN® 1425 SERIES

## VOC-Compliant: Extreme Pressure Coatings

### General Description

Xylan 1425 extreme pressure coatings are waterborne/VOC-compliant, and are formulated for high-pressure, low-speed applications. Xylan 1425 provides long-term lubrication for bearing surfaces subjected to extreme pressures: up to 150,000 psi (10,500 kg/cm<sup>2</sup>). The coating utilizes a unique dual lubrication system of PTFE and MoS<sub>2</sub>. Superior to "moly" greases which wash away and PTFE coatings which "cold flow", resin-bonded lubricants in Xylan 1425 stay on the job, even in harsh chemical environments. Xylan 1425 series is available in Black, Blue and Green.

### Substrate Information

Xylan 1425 coating can be applied to many types of substrate material such as aluminum, brass, high alloy steels, carbon steel, stainless steel, titanium and zinc plating.

### Use Temperature

Xylan 1425 coating can be used continuously from -58°F (-50°C) to +350°F (+176°C) and can survive up to +400°F (+204°C) intermittently.

If higher temperature service is required, please contact your Whitford representative for recommendations.

### Corrosion Resistance

Xylan 1425 coating applied at 1 mil (25 micron) dry film thickness, over zinc phosphated steel panels, has exceeded 1500 hours of ASTM B-117 salt fog test. With the same pretreatment, 30 cycles DIN 50018 (2.0 liters SO<sub>2</sub>) Kesternich Test are achieved. Both with less than 15% red rust.

Xylan 1425 coatings will provide even better corrosion protection if used over a sacrificial primer like Xylan 5211, Xylar 1 or Xylar P51.

### Physical Properties

Pencil hardness	2 - 4 H.
Dielectric strength	500 V/mil.
Coefficient of friction	.05 - 0.10
VOC content	2.84 lbs/gal (340.8gms/l)

### Chemical Resistance

Xylan 1425 coatings will withstand most solvents, waters, automotive fluids and fuels up to 200°F. Xylan 1425 coatings are impervious to new water base hydraulic fluids used in offshore oil production.

1425 Chemical Resistance	Changes in 1425 after 24 hrs exposure
HCl (concentrated) @room temp.	None
HCl (pH 2) room temp.	None
HCl (pH 2) 125°F	None
NaOH (50%) room temp.	None
NaOH (12.5) room temp.	None
NaOH (pH 9.5) 125°F	None
MEK room temp.	Slight Mark
Toluene room temp.	Slight Mark
Castrol Hydraulic Fluid 200°F	Gloss decrease: 25.6 to 24.1. No loss in coating integrity.
Oceanic HK-540 200°F	Gloss decrease: 29.9 to 10.3. Color lightened slightly. No loss in coating integrity.

### Application Instructions

Please refer to the Whitford Product Data Sheet for application information or contact your Whitford representative for more information.

# Whitford

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