

FluoroPlate® Functional Industrial Coatings

Leading Applicator of 100+ Proven Coating Technologies



Licensed Industrial Applicator



Functional Coating Characteristics	Applied Thickness Range	Coefficient of Friction	Non-Stick Performance	Abrasion Resistance	Relative Load Carrying-PSI	Chemical Resistance	Corrosion Resistance	Dielectric Strength (VPM)	Food Contact	Use Temp.F	Coating Cure Temp.F
FLUOROPOLYMERS											
PTFE	.0002" - .010"	.05 - .1	Best	Low	Low	Low	Low	500	Available	-420 - 500	700 - 810
FEP	.0005" - .005"	.2 - .3	Best	Medium	Low	Medium	Medium	700 - 850	Yes	-420 - 500	600 - 650
PFA	.001" - .025"	.15 - .2	Best	Medium	Medium	High	Medium-high	1000	Yes	-420 - 500	700 - 750
Xylan®	.0002" - .005"	.08 - .12	Best	Medium-high	Medium-high	Medium-high	Medium-high	750 - 1500	Available	-50 - 500	300 - 810
Teflon™	.0003" - .005"	.08 - .11	Best	Medium-high	Medium-high	Medium-high	Medium-high	750 - 1500	Available	-50 - 500	300 - 800
Emralon® (Bonderite®)	.0003" - .003"	.1 - .12	Good	Medium-high	Medium-high	Medium-high	Medium-high	750 - 1500	No	-50 - 500	300 - 800
HIGH PERFORMANCE POWDERS											
Tefzel™ (ETFE)	.003" - .030"	.2 - .3	Fair	High	Medium	Very high	Very high	1000 - 2000	N/A	-150 - 300	575 - 615
Halar® (ECTFE)	.005" - .060"	.4 - .5	Good	High	Medium	Very high	Very high	1000 - 2000	Available	-80 - 330	500 - 550
Nylon	.002" - .020"	.1 - .3	Good	High	Medium	High	High	1100 - 1700	Available	-55 - 280	425 - 500
PPS	.0006" - .003"	.1 - .3	Best	Very high	High	High	Very high	500 - 2000	Available	-40 - 400	600 - 700

Values are based on manufacturer supplied data.

Additional coatings continued on back.



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The information presented in this coatings data sheet is based on our application of and work with these coatings. End use conditions and methods of use with these coatings which are beyond our control may modify these results. Before adopting our coatings for commercial use, the user should test and confirm the suitability of these coatings for each specific use. Additionally, our recommendations and suggestions for the application and use of our coatings are not a warranty that such application or use are free from infringement of any third-party patent right. FluoroPlate®, FluoroGlass® and FluoroBond® are registered trademarks of Innovatech, LLC. Xylan® is a registered trademark of PPG. Emralon® and Bonderite® are registered trademarks of Henkel. Halar® is a registered trademark of Syensqo. Tefzel® and Teflon® are registered trademarks of Chemours. All trademarks are used under license by Orion Industries, Ltd. Orion is a Licensed Industrial Applicator of Teflon™ and other coatings. © Orion Industries, Ltd.

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FluoroPlate® Functional Industrial Coatings (continued)

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DRY FILM COATINGS											
Molydisulfide	.0002" - .0007"	.1 - .15	N/A	Good	Very high	Low	Low-medium	N/A	N/A	-40 - 650	300 - 700
Ultra-High Temp (N2)	.00002" - .0003"	.1 - .2	Good	N/A	High	Low	Low-medium	N/A	Yes	-200 - 850	300 - 700
SPECIALTY COATINGS											
DB Micro Composites	.001" - .005"	.08 - .15	Best	High	High	Medium	High	500 - 1000	Available	-50 - 500	300 - 750
PEEK/PEK	.0006" - .004"	.15 - .4	Best	High	Medium-high	High	High	500 - 1000	Available	-50 - 650	700 - 850
COATINGS FOR RUBBER, PLASTIC AND GLASS											
FluoroGlass®	.001" - .006"	.09 - .12	Best	Medium-high	Low	Medium	Medium	500 - 750	Available	-400 - 500	650 - 700
FluoroBond®	.0002" - .0015"	.1 - .2	Good	Low	Low	Low-medium	Medium	250 - 750	Available	-50 - 500	200 - 500
FluoroBond® LSR	.0005" - .001"	.2 - .3	Best	Low	Low	Low	Low	NA	Yes	-50 - 400	200 - 300

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