

Polyurethane Specialty Products Group

VERSALINK™

Oligomeric Diamines in Two-Component Coatings

Use of Versalink oligomeric diamines in two-component high-solids coatings demonstrates excellent abrasion resistance and capability at temperature extremes. Table 4 shows physical properties for a two-component coating based on Versalink P-250 and Versalink P-1000 oligomeric diamines.

Benefits of using these products include:

- Amine-cured with long pot life
- Safe processing
- High-solids, low-VOC capability
- Liquid processability at room temperature
- Wide formulating latitude

Safety and Handling Information

For all safety and handling information, please refer to the Versalink oligomeric diamine Material Safety Data Sheets, available upon request from Air Products.

TABLE 4 - VERSALINK OLIGOMERIC DIAMINES IN TWO-COMPONENT, HIGH SOLIDS COATINGS

	VERSALINK P-1000/ AIRTHANE® PET-95A	VERSALINK P-1000/ MDI PREPOLYMER (13.2% NCO)	VERSALINK P-250/ AIRTHANE PC-350
Catalyst	DABCO® T-1 at 0.05%		
Stoichiometry, %	80	95	95
Nonvolatiles, %	80	72	74
Viscosity, cPs	300	—	350
Pot Life, hr	1.75	0.80	0.25
Tack Free Time, hr	3.5	—	1.5
Through-Cure, hr	11.5	—	—
MEK Rubs	100+	—	100+
Pencil Hardness	21+	—	41+
Hoffman Scratch	1100G	—	1500G
Tensile, psi	2600	4000	3100
Elongation, %	660	600	100
Tear Strength, psi	—	400	—
Taber Abrasion	—	*1 mg/1000 cycles	—

*Conventional systems normally achieve an abrasion resistance of 25-50 mg/1000 cycles.



*To Order or Obtain
More Information*

If you would like to place an order or receive additional information, please write or call Air Products at the following location.

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