W2K-2002

90% Solids Water Reducible Polyester Polyol

W2K-2002 is 90% solids water reducible polyester polyol designed for use with aliphatic isocyanate prepolymers in the formulation of performance, two component water-based urethane coatings. This polyol represents the best in our line of low VOC polyester polyols for water-based systems. It is our first to possess the formulating latitude to produce coatings with dry times and properties comparable to conventional solvent-based urethanes. This technology allows the formulator to achieve a dry film thickness of 3 – 4 mils without any of the out-gassing observed with other water-based polyol technologies.

W2K-2002 offers excellent emulsification and compatibility with aliphatic isocyanate cross-linkers, thus eliminating the need for surfactant modified, or water dispersible isocyanates. Properly formulated systems based on W2K-2002 also require no induction prior to application, thus providing a longer usable pot life. The resulting films provide an excellent balance of properties ideally suited for both interior and exterior urethane applications. The properties include excellent dry rate, excellent cure rate, high gloss, good gloss retention, abrasion resistance, and flexibility. In addition, these films using W2K-2002 offer very good solvent, fluid, and stain resistance.

Physical State
Liquid

Applications
- OEM Applications
- Industrial Maintenance Finishes
- Business Machine Applications
- Transportation Coatings

Advantages
- Low Odor
- Low VOC
- Non-HAPS
- Excellent Early Hardness
- High Specular Gloss
- Excellent Taber Abrasion Resistance

Typical Properties

Appearance	**Clear to Slightly Opaque**
Viscosity (Gardner-Holdt)	**Z3 – Z6**
Color (Gardner)	**3 max.**
Acid Value	**10 mg KOH/g max.**
Solids	**90 ± 2%**
Density	**9.50 ± 0.15 lb/gal**
HEW (on solids)	**269 (Theoretical)**
Solvent	**75% Water**
	19% DMM
	0.7% PM Acetate
	0.3% VM&P Naphtha
	5% TEA

*****Special Storage Conditions: Must be stored at a temperature above 32°F/0°C*****

Shelf Life: 2 years in a sealed container at 77°F.

Precautions

Some materials in this product may cause skin and eye irritation and/or sensitization or other allergic responses upon repeated contact. Therefore, this product must be handled with extreme care and in strict adherence to good industrial practices. Before using it or any other product referred to in this bulletin, consult the applicable Safety Data Sheets for appropriate handling procedures and protective equipment.

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