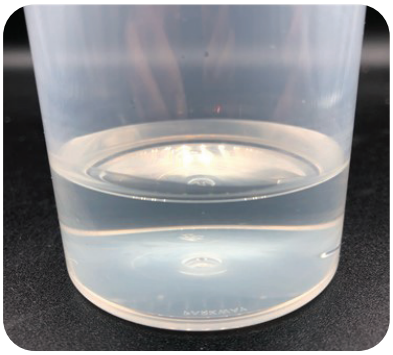
HYDROEXTER

NEW Waterborne Polyester Resins

HYDROEXTER resins are clear, water dispersed liquid polyols designed for water-based (WB) coatings and adhesives. They are especially suitable for formulating near zero-VOC WB 2-component urethanes using standard hydrophobic isocyanates.

KEY FEATURES

- High solids (>60% in water)
- No co-solvent
- Surfactant-free
- HAPs-free
- Reactive-amine neutralized
- Manufactured in USA



BENEFITS

Formulating

- Balance of pot life and fast dry time
- Effective as lone resin or in conjunction with acrylic or polyaspartic resins
- Compatible with standard hydrophobic isocyanate as well as with hydrophilic-modified isocyanate
- Wide ratio latitude (2:1 to 1:1) for refining performance
- Total formulation cost advantage

Performance

- Flexibility
- Adhesion (including plastic)
- Chemical and stain resistance (solvent, skydrol, hydrocarbons, acid)
- Durability, abrasion/scratch resistance
- Clarity and high gloss (~90 at 60°)

TYPICAL APPLICATIONS

- Floor coatings
- Anti-microbial
- Anti-graffiti
- Corrosion protective
- Automotive/aerospace
- General industrial/maintenance
- Protective and marine

www.us.coimgroup.com

North America

Inquiries and Sample Requests

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HYDROEXTER Sample Formulation

HYDROEXTER I64-145 is used to formulate ultra-low VOC WB 2K PU coatings. The system below is 2:1 by weight (polyol : iso) using standard hydrophobic HDI-trimer. The ratio can be adjusted towards 1:1 to increase hardness and chemical resistance. Typical DFT is 1 to 3 mil. The coating dried in 4 to 5 hours without additional catalyst. Depending on substrate, additional/stronger surface control agents may be needed for micro-defects. UV-absorbers should be used for external applications.

Material	Description	Weight %
HYDROEXTER I64-145	WB Polyester Resin	41.8
Deionized Water	Diluent	21.3
Byk-024	Defoamer	0.3
Byk-345	Wetting Agent	0.9
Acrysol™ RM-8W	Rheology Modifier	2.3
Isocyanate		
Wannate® HT-100	HDI Trimer	33.4

Formulation Characteristics

Total Formulation Solids	62%
Part B Viscosity	600 cP
Material VOC	13 g/L
Coating VOC	22 g/L

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