Unilink® 4200
Aromatic Diamine Chain Extender

DORF KETAL™

DESCRIPTION

UNILINK® 4200 is a multifunctional aromatic diamine chain extender for polyurethane elastomers. Thanks to relatively low reactivity, UNILINK® 4200 can be used in TDI or MDI formulations, and cross-linking can be controlled by adding higher functioning polyols.

Performance Benefits:
- Easy handling, environmentally friendly liquid (Ames negative)
- Low moisture sensitivity
- Compatible with most polyols, co-curatives and polyurethane chemicals
- Excellent storage stability in polyether and polyester polyols

APPLICATIONS

Flexible Foams

UNILINK® 4200 improves tensile, tear and load-bearing properties In standard TDI and high-resilience slabstock foam systems, often at lower foam densities, and significantly improves polyester foam tear strength and load-bearing. It reduces density and softens cold-molded foams, producing higher tensile strength, tear and elongation, along with improved mold flow and decreased de-mold times.

Rigid Foams

Rigid foams cured with UNILINK® 4200 show significant improvements in compressive strength and dimensional stability with reduced friability, a higher percentage of closed cells and lower K-factor. Compressive strength improves by up to 100% in PIR foams, and dimensional stability also is significantly enhanced.

Coatings, Adhesives, Sealants & Elastomers

Formulations cured with UNILINK® 4200 adhere better and develop smoother surface finishes.

Polyurea Systems

UNILINK® 4200 slows the gelling reaction, improving flow and allowing polyurea coatings to be processed by spray or pour techniques. Adhesion to the substrate and surface finishes improve, and so does bonding between coats. Cured systems have excellent physical properties and exhibit significant improvements in impact resistance and low-temperature performance.

HOW TO USE

Typical application rates range from 1 to 5 parts per hundred polyol (php) depending on the desired reaction time and application.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Clear, light-to-dark-brown liquid
Hydroxyl number	362
Flash point, PMCC, °C (°F), min	161 (321.8)
Specific gravity @ 26.7 °C (80 °F)	0.98 to 0.99
Density, g/cm^3 (lb/gal)	0.995 (8.3)
Water content, ppm, max	500
Molecular weight	310
Equivalent weight, min	153

PACKAGING AND SHIPPING	Not regulated for transportation by US DOT
SAFETY AND HANDLING	Please refer to the current Material Safety Data Sheet for detailed safety, handling and toxicity information.
TYPICAL SHELF LIFE	1 year

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