A-LINE PRODUCTS CORPORATION

TECHNICAL DATA

AFEX™

Hydroxylated Natural Oil

Soy-Based Polyols

SB10C, SB15C, SB20C, SB23C, SB30C

DESCRIPTION

- Natural oil polyol based on soybean oil
- Hydroxyl functionality of 1.0 - 3.0 and high/low molecular weight
- Soluble in various organic solvents
- Reacts with isocyanates, melamines, anhydrides and oxygen
- Compatible with traditional petrochemical polyols

APPLICATION

- Coatings, adhesives, sealants and elastomers (CASE)
- Crosslinkable waterborne polyurethane dispersions
- Waterborne or solvent-based melamine coatings and adhesives
- Potential crosslinking or curing agent for epoxy adhesives or coatings
- Special chemical or additives based on urethane chemistry

PERFORMANCE

AFEX™ polyols with low molecular weight and high functionality

- Increases crosslinking density
- Increases cohesive density
- Increases modulus

AFEX™ polyols with high molecular weight and low functionality

- Increases elongation
- Improves low temperature resistance
- Increases peel strength

Specifications	SB10C	SB15C	SB20C	SB23C	SB30C
Appearance	Transparent Liquid	Transparent Liquid	Transparent Liquid	Transparent Liquid	Transparent Liquid
Color (Gardner)	8 - 10	8 - 10	8 - 10	8 - 10	8 - 10
Odor	Mild Oil	Mild Oil	Mild Oil	Mild Oil	Mild Oil
Visc. Cps /RT	< 500	< 500	< 500	< 500	< 500
Weight / Gal.	~ 8.2	~ 8.2	~ 8.2	~ 8.2	~ 8.2
Non-volatile, %	100	100	100	100	100
Equiv. Wt. On OH	663	354	199	148	295
Hydroxyl Number	85	159	282	380	190
Molecular Weight	663	531	399	333	885
Functionality	1	1.5	2	2.3	3
Moisture %, max	0.01	0.01	0.01	0.01	0.01