

AFEX™
Natural Oil Polyols
Tung Oil - Linseed Oil - Canola Oil (TLC) Series
TLC10C, TLC15C, TLC20C, TLC23C, TLC30C

DESCRIPTION

- Natural oil polyol based on tung oil, linseed oil and canola oil
- Hydroxyl functionality of 1.0 - 3.0 and high/low molecular weight
- Contains three crosslinkable conjugated double bonds
- Compatible with various commercial polyols
- Soluble in various organic solvents
- Reacts with isocyanates, melamines, anhydrides and oxygen

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
- Polyurethane foam
- Special chemical or additives based on urethane chemistry

PERFORMANCE
AFEX™ polyols with low molecular weight and high functionality

- Increased crosslinking density
- Increased cohesive density
- Increased Modulus

AFEX™ polyols with high molecular weight and low functionality

- Increased elongation
- Improved low temperature resistance
- Increased peel strength

	TLC10C	TLC15C	TLC20C	TLC23C	TLC30C
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	< 1000	< 1000	< 1000	< 1000	< 1000
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 %	0.01 max	0.01 max	0.01 max	0.01 max	0.01 max

Patents pending



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