

# Additives for Wood Coatings



There are many demands of wood coatings from aesthetics to protection of the material. King Industries additives address the industry challenges including matting, scratch resistance, chemical resistance and defoaming. For more information about King Industries' diverse portfolio, visit [www.kingindustries.com](http://www.kingindustries.com).

## Performance Advantages

● Most Effective   ◐ Very Effective   ○ Effective

## CATALYSTS FOR MELAMINE CROSSLINKED COATINGS

By selecting the proper catalysts, formulators can optimize productivity and costs and develop better quality coatings. Our **NACURE**® catalysts will not only affect reaction rate, but will also improve performance properties.

	Systems	Performance Advantages					
	WB/SB	Pot Life	Moisture Resistance	Stain Resistance	Block/Print Resistance	Adhesion	Gloss
NACURE® 155	WB + SB		●	●		●	
NACURE® X49-110	WB + SB	●	●	●		●	
NACURE® 2500	WB + SB	●		●	●		●
K-CURE® 1040	SB			●	●		●
NACURE® XC-338	SB			●	●		●
NACURE® 4167	WB + SB	●				◐	◐
NACURE® 4054	SB	◐				◐	◐

## NON-TIN CATALYSTS FOR POLYURETHANES

**K-KAT**® catalysts are metal compounds that are environmentally friendly alternatives to DBDTL and other tin based catalysts with performance advantages in polyurethane coatings.

	Systems				Performance Advantages				
	Metal Type	SB 2K PU	Blocked NCO	WB 2K PU	Efficiency	Pot Life	Selectivity	Hydrolytic Stability	Non-Yellowing with BZT*
K-KAT® XK-651	Bismuth Carboxylate	●	◐		◐		◐	○	●
K-KAT® XK-635	Zinc Complex	◐	◐	○	○	◐	○	◐	○
K-KAT® XK-661	Zinc Complex	○		●	○	◐	○	●	○
K-KAT® 6212	Zirconium Chelate	○		●			●		●

\*benzotriazole

## SURFACE CONTROL AGENTS

With the addition of surface control agents and rheology additives, the optimal wood coating can be achieved with excellent pigment suspension, silica matting orientation, defoaming and leveling. **DISPARLON®** provides a balanced mix of performance benefits for both waterborne and solvent borne wood coatings.

	Systems	Performance Advantages			
	WB/SB	Flow/Leveling	Defoaming	Dispersibility	Orientation
DISPARLON® LAP-30	SB	●	●	○	○
DISPARLON® AQ-330	WB	○	○	●	●

Performance Advantages	
●	Most Effective
◐	Very Effective
○	Effective

## RHEOLOGY MODIFIERS

	Systems	Performance Advantages						
	WB/SB	Anti-Sag	(Pigment) Anti-Settling	(Silica)	Pigment Orientation	Easy Incorporation	Spray	Brush
DISPARLON® 6900-20X	SB	●	●	●	◐	○	●	◐
DISPARLON® NS-5500	SB	○	●	●	●	●	◐	●
DISPARLON® PFA-231	SB	●	●	●	◐	○	●	◐
DISPARLON® AQH-800	WB	◐	●	●	●	●	●	◐
DISPARLON® AQ-001	WB	●	○	○	○	●	●	●

## RESIN MODIFIERS

**K-FLEX®** resin modifiers provide durability and reduce VOCs. All K-FLEX® polyols have excellent solubility in different solvents, including exempt solvents.

	Performance Advantages						
	Low VOC	Flexibility	Hardness	Gloss	Chemical Resistance	Scratch Resistance	Moisture Resistance
K-FLEX® 188	●	●	◐	●	●	●	●
K-FLEX® XM-366	●	●	○	●	◐	●	◐
K-FLEX® XM-332	●	●	○	●	○	●	○
K-POL® 8211	●	◐	●	◐	●	◐	○

## SOFT FEEL

**Deogrip®** provides matting and soft-feel finishes for wood coatings in waterborne and solventbased systems.

	Systems	Product Chemistry	Performance Advantages			
	WB/SB	Chemistry	Soft Feel	Matting	Easy Incorporation	Burnish Resistance
Deogrip® Micro S 1010	SB	Crosslinked castor oil	●	◐	●	●
Deogrip® Micro A 2010	WB	Crosslinked castor oil	●	◐	●	●