

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. This selection guide recommends King additives for wood coatings. For more information about our diverse portfolio, visit www.kingindustries.com.

● 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.

	Acid Type	Pot Life	Moisture Resistance	Stain Resistance	Block/Print Resistance	Adhesion	Gloss
NACURE® 155	DNNSA		●	●		●	
NACURE® X49-110	DNNSA	●	●	●		●	
NACURE® 2500	p-TSA	●		●	●		●
K-CURE® 1040	p-TSA			●	●		●
NACURE® XC-338	p-TSA			●	●		●
NACURE® 4167	Phosphate	●				◐	◐
NACURE® 4054	Phosphate	◐				◐	◐
NACURE® XC-235	Phosphate	◐				◐	◐

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.

	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

● Most Effective ◐ Very Effective ○ Effective

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.

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

RHEOLOGY MODIFIERS

	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

Our **K-FLEX®** resin modifiers delivers durability to the wood coating while being more environmentally friendly. All K-FLEX® resin modifiers have excellent solubility in many different solvents, including exempt solvents.

	Low VOC	Flexibility	Hardness	Gloss	Chemical Resistance	Scratch Resistance	Moisture Resistance
K-FLEX® XM-430	●	◐	●	◐	●	◐	●
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.

	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	●	◐	●	●