

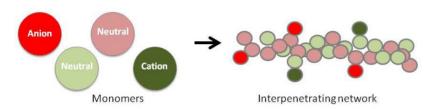
SYNTRAN® 6145

Technical Bulletin

SYNTRAN® 6145 is based on a patented bimodal technology with film-forming properties. This technology combining two different ionic structures in the same polymer network increases the adhesion to multiple substrates, wood tannin blocking, stain blocking and dye blocking. This technology allows a formulator to take advantage of the good aspects of a cationic acrylic without the traditional compatibility issues.

The diagram below demonstrates the complex anionic-cationic network that is formed during our patented process:

Bimodal Network



Performances

Applications Stain & Tannin blocking coatings

Features and Benefits Excellent tannin, stain and dye blocking

Excellent adhesion to multiple substrates High compatibly with other resins & additives Zero VOC requirements to formulate coating

Typical Chemical and Physical Properties (all testing done at 22°C, unless specified)

Physical formWhite emulsionSolids content $40 \pm 1.0\%$ pH value 7.0 ± 1.0 Viscosity< 200 cpsDensity 1.030 ± 0.005

MFFT < 10°C

Freeze-thaw stability Protect from freezing

Stability at 52°C Unchanged after 30 days

Safety, Storage, Handling

Please refer to Material Safety Data Sheet.

Shelf life: 12 months from shipping date in originally sealed containers.

Storage: between 5°C and 35°C.



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Tannin Migration Test - Clear Sealer (Photos show results of sealed, then white painted oak panels after 12 Month)

Syntran 6145 based Sealer

No Sealer



Tannin Blocking Clear Sealer F74-031-04 @28%nv	
Ingredient	% wt
Water	27.0
Propylene glycol	1.0
Defoamer	0.1
SYNTRAN® 6145	71.9
Total	100.0

Tannin Migration Test - White Primer (Photos show results of just painted oak panels after 12 Month)

Syntran 6145 based Primer

Standard Acrylic Primer



Tannin Blocking White Primer F74-030-09 @45%nv	
<u>Grind</u>	% wt
Titanium Dioxide Slurry	28.14
SYNTRAN® 1511	0.66
Wetting agent	0.10
Defoamer	0.03
<u>Letdown</u>	
Water	7.61
SYNTRAN® 6145	62.00
Propylene glycol	0.66
Wetting agent	0.10
Defoamer	0.03
Rheology modifier	0.66
Total	100.0

The suggestions and data included are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. It is the buyer's responsibility to determine the suitability of the above formulation through quality control and field testing. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any existing or pending patents.