

ECCOTHANE S6055

SELF CROSS-LINKING URETHANE/ACRYLIC POLYMER

Eccothane S6055 is a solvent-free version of Eccocryl S6025 that uses our proprietary self cross-linking urethane/acrylic technology. S6055 can be formulated into < 100 g/l VOC water-based wood coatings. These coatings exhibit outstanding durability and gloss retention because of the polycarbonate backbone on the polyurethane component of the polymer.

KEY BENEFITS

- Solvent-free
- Creates < 100 g/l VOC coatings
- Outstanding gloss retention
- Mar and scratch resistance

DISCLAIMER: The information and recommendations contained herein are based on data believed to be correct. The information is offered solely for the customer's consideration, investigation and verification because of numerous factors beyond our control affecting the results of the use of products, Essential Industries, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose, other than that the product conforms to its applicable current standard specification. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.

TYPICAL PROPERTIES*

Appearance	Translucent White to Tan
pH.....	8.0
Solids, % by Weight	35
Viscosity, cps @ 25°C	< 50
Density, lbs/gal	8.8
% VOC	< 0.5
Tg °C	33
Acid Number	26
Freeze/Thaw Stability	Passes 3 cycles
König Hardness (secs).....	78

*These values should not be interpreted as specifications.



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Starting Point Formulation

INGREDIENTS

ECCOTHANE S6055
Dipropylene glycol monobutyl ether
Tego® Foamex™ 825
Tributoxyethyl phosphate
35% solids wax emulsion of Licowax™ PED 191
Dynol® 800

ALX243B

931
32.4
4.5
7.9
23.2
0.5

Chemguard™ S500

0.5

TOTAL:

1000.00

Physical Properties

% Solids 33.5%
pH 7.8
VOC < 100 g/l
Viscosity < 50 cps
WT/gal..... 8.71

Performance Information

Konig Hardness (seconds) 1 Day, 7 Day.....55, 78
Pencil Hardness (7 day) H

Supplier Information

PRODUCT

Tego® Foamex 825
Licowax® PED 191
Dynol®
Chemguard® S550

DESCRIPTION

Defoamer
Wax Emulsion
Leveling Agent
Leveling Agent

SUPPLIER

Evonik
Clariant
Air Products
Chemguard

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Tests Performed on Maple (1 coat sanding sealer - 2 coats top coat)

1 Hour Covered Spot Test

Vegetable Oil.....	No Effect
Red Wine	No Effect
Red Wine Vinegar.....	No Effect
Water	No Effect
50% Ethanol	Slight softening, recovered
70% Isopropanol.....	Slight softening, recovered
Formula 409.....	No Effect
0.1 Normal HCl.....	No Effect
10% NaOH.....	No Effect
1 % Bleach	No Effect