



1. Product Name

Ultra Flagship UV 450 & 250

2. Manufacturer

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3. Product Description

BASIC USE

Ultra Flagship UV 450 & 250 are intended for professional use only. They are formulated for exterior and interior wood surfaces especially those surfaces that are subject to heavy wear such as doors, windows, floors and above waterline marine surfaces. Ultra Flagship UV 450 & 250 may be applied to bare, bleached or stained wood. They are compatible with a variety of other Wood Kote products. Please refer to the *Wood Kote Schedule of Product Compatibility and Recommended Dry Times*. Ultra Flagship UV 450 & 250 comply with the US Environmental Protection Agency (EPA) Volatile Organic Compound (VOC) emission requirements for Architectural and Industrial Maintenance coatings (effective 13Sep99). Ultra Flagship UV 250 complies with California SCAQMD Rule 1113 (effective 13 July 2007).

ADVANTAGES

- Brush or spray
- Durable
- Easy to clean
- High UV resistance

COVERAGE

One application of Ultra Flagship UV 450 or 250 will cover approximately

400-500 sq ft/gal (9,8-12,2 m²/L). For best results, 3-4 coats are recommended.

COMPOSITION & PROPERTIES

Ultra Flagship UV 450 or 250 are almost pure polyurethane resin formulations with only a small percentage of modifying resin. Ultra Flagship UV 450 & 250 contain the maximum effective quantity of two UV (ultra violet) inhibitors. They are intended for application without thinning. If thinning is desired, PolySolvent (mineral spirits) should be used or, if regulations require a VOC-exempt thinner, use AceThin (acetone), or OxyThin (p-Chloro-a,a,a Trifluorotoluene).

TYPES

Ultra Flagship UV 450 & 250 are available from the factory in Clear in 3 sheens. The sheen levels of Ultra Flagship UV 450 can be reduced with PolyFlat 450 (flattening agent). Flagship UV is available in aerosol.

SIZES

Ultra Flagship UV 450 is sold in 12-fl oz (335ml), 32-fl oz (946ml), 1-Gal (3,8L), 5-Gal (19L) and 55-Gal (208,5L) metal containers. Ultra Flagship UV 250 is sold in 32-fl oz (946ml), 1-Gal (3,8L), 5-Gal (19L) and 55-Gal (208,5L) metal containers. Flagship UV is sold in 11.5-oz (326gm) aerosol.

4. Technical Data

PHYSICAL PROPERTIES

See table 1

5. Installation

Complete installation specifications and recommendations are available from the manufacturer.

PREPARATORY WORK

Applicator Qualifications

All work shall be performed by skilled tradesmen experienced in performing work of this type and under the direction of a capable foreman.

Samples

For each finish system indicated at least two 8-1/2"x11" (19x24,6 cm) pieces should be provided for approval. If it is apparent conditions may allow substantial variations, a



be created to indicate the parameters of the variations. Those samples marked "approved" by architect/specifier shall serve as the standard for similar work throughout the project.

Inspection

Verify all surfaces to be finished will be maintained within a temperature range of 45-80°F (7-27°C) during application and curing period. Verify all surfaces to be finished are clean and dry. Use an electric moisture meter to test all wood surfaces. Do not proceed if reading is higher than 15% without written permission from architect/specifier.

Surface Preparation

Sand all wood surfaces in the direction of the wood grain with the appropriate abrasive grit specified on the finish schedules (usually between 80-220 grit). Sand all wood surfaces until all machine marks and glue are removed and each species has achieved a uniform smoothness without rough or burnished areas. Remove all sanding dust from the surfaces to be finished and from the work area.

Mixing

Satin and Matte sheens should be thoroughly mixed prior to application. Please refer to *Wood Kote Lacquer & Polyurethane Stirring and/or Mixing Instructions*.





APPLICATION

Ultra Flagship UV 450 & 250 are formulated to be applied by hand in-shop or on-site with a high quality natural or synthetic bristle brush designed for polyurethane application, with spray equipment that is designed for polyurethane, or from the aerosol container. Each coat should be applied at 0.003" (0,07 mm) wet film thickness in a manner that each application is uniform in sheen and color, must be free from sags, runs, bubbles or other defects detrimental to appearance or performance.

PRECAUTIONS

For on-site application, be certain local applicable VOC regulations do not supercede Federal regulations. Be certain that on-site conditions allow for adequate ventilation and pose no threat of fire or other health hazards. Ultra Flagship UV 450 & 250 will yellow over time and with exposure to light. Therefore, Ultra Flagship UV 450 & 250 are NOT recommended for application on white or pastel surfaces. The effectiveness of the UV inhibitors in Ultra Flagship UV 450 & 250 will diminish with exposure to light. In order to renew the UV inhibitors and thus preserve the integrity of the coating, subsequent maintenance applications of Ultra Flagship UV 450 & 250 must be applied before there is visible deterioration of the coating. Polyurethane gloss levels are sensitive to temperature, barometric pressure and method of application (brush or spray). To avoid variations in gloss levels it is recommended that each

application of polyurethane be applied continuously to the entire project using the same application method. For Ultra Flagship UV 250 allow 24hrs before recoating on non-wood surfaces. These products have been tested on a very limited number of substrates (and coatings). In addition, a very limited number of coatings have been tested over these products. The applicator is responsible for testing suitability and performance for the specific application. In all cases, Wood Kote strongly recommends testing the entire finish system on an equivalent substrate before applying to the project. Ultra Flagship UV 450 & 250 should only be applied by qualified professionals who have read and understood this information. Before using any chemical, read its label and Safety Data Sheet (SDS).

CLEAN UP

Clean tools and surfaces with an absorbent cloth and PolySolvent, or if regulations require a VOC-exempt thinner, use AceThin.

6. Availability & Cost

AVAILABILITY

Ultra Flagship UV 450 & 250 are available through recognized Wood Kote retailers or directly from the manufacturer. A list of stocking dealers is available from the manufacturer and can be found on the manufacturer's web site.

COST

Cost information is available from recognized Wood Kote retailers or from the manufacturer.

7. Warranty

Ultra Flagship UV 450 & 250 are sold without warranty except that Wood Kote guarantees that the products are manufactured within the specifications provided herein. Unless Wood Kote

warranties, in writing, specific products on an identified project, Wood Kote's liability is limited to the replacement cost of the product. The information provided herein is accurate to the best of Wood Kote's knowledge or obtained by Wood Kote from sources believed by Wood Kote to be accurate. Wood Kote Products Inc does not assume any legal responsibility for use or reliance upon this information.

8. Maintenance

STORAGE

Keep in the original containers tightly closed when not in use and stored away from direct light at temperatures between 32-110°F (0-43°C).

CLEANING & REPAIR

Ultra Flagship UV 450 & 250 surfaces should be cleaned with mild soap and water. Surfaces may be repaired and maintained by lightly sanding the existing surface and applying subsequent coats in the manner outlined above. ANNUAL RECOATING is recommended (see precautions). Ultra Flagship UV 450 & 250 will not dissolve themselves and therefore spot repair is not recommended. Entire surfaces should be evenly recoated to their edges.

DISPOSAL

Dispose of only in accordance with local, state and federal regulations.

9. Technical Services

Additional information is available directly from the manufacturer and from the manufacturer's web site.

10. Filing Systems

- Wood Kote–Product Catalog
- Additional product information is available from the manufacturer
- www.woodkote.com

Physical Properties Table 1

Product	Mfr No	COLOR	SHEEN	GLOSS @ 60°	% WT SOLIDS	VOC gm/L	FLASH PT
Ultra Flagship UV 450	325	Clear	Gloss	90-85	49.7	<450	105°F (40,6°C)
	375		Satin	40-30	50.9	<450	110°F (43,3°C)
	350		Matte	20-13	51.4	<450	110°F (43,3°C)
Ultra Flagship UV 250	3325	Clear	Gloss	90-85	43.2	<250	105°F (40,6°C)
	3375		Satin	40-30	39.5	<250	105°F (40,6°C)
	3350		Matte	20-13	41.2	<250	105°F (40,6°C)
Flagship UV Aerosol	325	Clear	Gloss	87-82	14.9	N/R <67%	0°F (-17,7°C)
	375		Satin	40-30	21.7	N/R <67%	0°F (-17,7°C)
	350		Matte	20-15	26.7	N/R <67%	0°F (-17,7°C)

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