



The Wood Finish People

# PRODUCT INFORMATION

DEFTHANE®  
POLYURETHANE

**DESCRIPTION:** DEFTHANE is an Interior and Exterior Oil Modified Urethane Varnish, with great acceptance by professionals and do-it-yourself finishers throughout the United States and beyond. NASA has used Defthane on the Space Shuttle for over 20 years. Use Defthane on stained or bare wood for furniture, floors, doors, cabinets, windows etc. Non-toxic when dry.

## SPECIFICATIONS

<p><b>SOLVENT TYPE</b> Mineral Spirits</p> <p><b>RESIN TYPE</b> Oil modified Urethane</p> <p><b>FINISH (at 60 degrees)</b> Gloss 90+ %, Semi-Gloss 45-55 %, Satin 18-28 % @60°</p> <p><b>COLORS</b> Clear</p> <p><b>BASES</b> Not available</p> <p><b>VISCOSITY AT 77° F (25° C)</b> 200 – 600 CPS</p> <p><b>VOC CONTENT</b> Available at 275 g/L and at 450 g/L (as supplied) Meets the federal AIM Rule.</p> <table border="0"> <tr> <td><b>SOLIDS BY VOLUME*</b></td> <td><b>SOLIDS BY WEIGHT*</b></td> <td></td> </tr> <tr> <td>275 VOC: 54 ± 1%</td> <td>275 VOC: 55 ± 1%</td> <td></td> </tr> <tr> <td>450 VOC: 44 ± 1 %</td> <td>450 VOC: 50 ± 1 %</td> <td></td> </tr> </table> <p><b>WEIGHT PER GALLON</b> 7.3 – 8.6</p> <table border="0"> <tr> <td><b>COMPOSITION BY WEIGHT*</b></td> <td>275 VOC</td> <td>450 VOC</td> </tr> <tr> <td>Vehicle</td> <td>55 %</td> <td>50 %</td> </tr> <tr> <td>Solvent and additives</td> <td>45 %</td> <td>50 %</td> </tr> </table> <p><b>RECOMMENDED FILM THICKNESS PER COAT</b> Wet: 3.0 mils      Dry: 1.5 mils Apply thin coats to achieve best sheen consistency. Apply three or more coats for best performance.</p> <p><b>PRACTICAL COVERAGE PER COAT AT THE RECOMMENDED DRY FILM THICKNESS</b> 500-600 sq.ft./gal., depending on surface conditions</p> <p><b>AVERAGE DRY TIME AT 77° F (25° C)</b> To Touch: 90 minutes (275 VOC)      65 minutes (450 VOC) Recoat: 6 – 8 hours (275 VOC)      4 – 6 hours (450 VOC) Tack-free: 6 hours (275 VOC)      4 hours (450VOC) Final coat: Allow 36 hours (275 VOC); 18 hours dry (450 VOC)</p> <p><b>APPLICATION EQUIPMENT</b> Brush, Airless Spray, HVLP Spray, Conventional Spray</p> <p><b>PACKAGING</b> Pints, Quarts, Gallons, 5 Gallons, Drums, Aerosols.</p>	<b>SOLIDS BY VOLUME*</b>	<b>SOLIDS BY WEIGHT*</b>		275 VOC: 54 ± 1%	275 VOC: 55 ± 1%		450 VOC: 44 ± 1 %	450 VOC: 50 ± 1 %		<b>COMPOSITION BY WEIGHT*</b>	275 VOC	450 VOC	Vehicle	55 %	50 %	Solvent and additives	45 %	50 %	<p><b>MATERIAL SAFETY DATA SHEET</b> Available on request</p> <p><b>SURFACE PREPARATION</b> All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, and other contaminants. Remove all loose, peeling, or cracked coatings. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded, and cleaned. Glossy surfaces should be dulled to provide a roughened surface for good adhesion.</p> <p><b>THINNING RECOMMENDATIONS</b> DEFTHANE is supplied at application viscosity. In VOC (Volatile Organic Compound) regulated areas it is not permitted to add additional solvent. Where permitted, the addition of Mineral Spirits (5 % - 10 %) will improve flow and leveling for spray application.</p> <p><b>CLEANUP</b> Use paint thinner (mineral spirits) for cleanup. Dispose of waste in accordance with applicable laws and regulations.</p> <p><b>PRIMER</b> Do not apply over sanding sealers or shellac.</p> <p><b>OTHER SYSTEM INFORMATION</b> DEFTHANE can be used over most well-cured stains and penetrating oils, such as DEFTOIL and STEP SAVER. Try a small test area before doing the entire project.</p> <p><b>WARNING</b> DEFTHANE may amber after application. For that reason it is not recommended to use DEFTHANE over light colored surfaces.</p> <div style="border: 2px solid red; padding: 5px;"> <p><b>COMBUSTION</b> The solvents in DEFTHANE are combustible; provide ventilation and avoid all ignition sources, during application and drying.</p> </div> <p>*Not specification values. Representative values calculated based on product formulas and ingredient characteristics as reported to Deft by suppliers.</p>
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