

# Painting KYDEX® Thermoplastic Sheet For information applicable to KYDEX® FST please refer to 300 series technical briefs.

TB - 152-A

Introduction	KYDEX <sup>®</sup> thermoplastic sheet is easily painted if recommended paints are used in accordance with manufacturer's recommendations. Due to the high chemical resistance of it, only certain paints adhere well. It is very important to use recommended paints to paint KYDEX <sup>®</sup> sheet. KYDEX, LLC has performed research into which paints are suitable and what methods should be used to paint it. These methods have proven successful in the field, and will provide excellent results.
Paint Selection	Recent environmental concerns and legislation have caused the creation of paints with differing levels of "Volatile Organic Compounds" (VOC). High VOC level paints have a high solvent content. Low VOC level paints exhibit a lower level of solvent content, and also do less environmental damage. Some municipalities have legislated what VOC levels may be legally used in their jurisdiction. Please check with local officials to learn if any restrictions on VOC levels exist before selecting a paint. Normal VOC level paints have proven successful to paint KYDEX <sup>®</sup> sheet.
	The following paints have been tested and are recommended for painting KYDEX® sheet:
	Sherman Williams SuperPaint® or Duration™ Sherwin Williams Polane™ Series (Spray application only) Phone: (800) 331-7979 (Ronseal U.K.: 44.114.246.7171) web: http://www.sherwin-williams.com/
	Cardinal Polyurethane 6400 Series (Spray application only) Phone: (323) 283-9335 web: http://www.cardinalpaint.com/
Considerations When Using Recommended Paints	Overheating during thermoforming may cause paint adhesion problems due to excess gloss. Be sure the KYDEX <sup>®</sup> sheet is formed in accordance with the recommendations of KYDEX.
	Low VOC level paints have demonstrated lower adhesion properties. If a low VOC paint must be used, surface preparation prior to painting may increase adhesion. See "Surface Preparation" below.
	Retarding agents are available from paint manufacturers, which have increased paint adhesion in laboratory testing. These retarding agents cause the paint mixture to evaporate slower, giving the paint more time to attack and adhere to the surface. As an example, adhesion of Polane T Plus paint was increased when Reducer R7K84 was replaced by retardant R7K216 in the paint mixture.
	For external applications using Sherwin Williams Polane Series, use exterior catalyst V66V29 instead of the interior catalyst V66V27. The ratio is 6 parts paint, one part catalyst.
KYDEX, LLC ISO 9001 and 14001 Certified	
Customer Service 6685 Low St, Bloomsburg, PA 17815 USA Phone: 800.325.3133, +1.570.389.5810 Outside the US: +1.570.389.5814 Fax: 800.452.0155, +1.570.387.7786 Email: info@kydex.com	
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ry the following surface preparation techniques. Always check to make les not violate existing environmental statutes.
sheet surface can be wiped using IPA or rubbing alcohol prior to painting. e surface and create a strong bond to the KYDEX® sheet.
dpaper. This will roughen the surface and make it more suitable for paint wood surface. Wipe the surface with dry cloth or IPA after sanding
oor adhesion in laboratory testing. KYDEX, LLC does not recommend the Water-Based Latex Paints, and Oil–Based Enamels.
culties with the paints listed above, customers may experience success with

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