

# Perfection (Professional)

## Finishes

### High Performance Polyurethane Gloss Finish



#### PRODUCT DESCRIPTION

Perfection (Professional) 2-part polyurethane is the ultimate performing, high gloss topside finish. It provides long lasting, ultra-high gloss finish that has superb colour-retention, together with excellent chemical and abrasion resistance. It has been formulated specifically to enable users to achieve high quality whether application is by brush, roller or conventional spray. UV filters combined with the chemical cure of the polyurethane give the longest life possible.

- \* Hardest, abrasion-resistant finish making it an excellent choice for use on high wear areas e.g. decks (with Intergrip additive).
- \* Chemically resistant to diesel, petrol, oil, mild acids and alkalis

#### PRODUCT INFORMATION

<b>Colour</b>	YHA183-Platinum, YHA184-Med. White, YHA192-Off White, YHA194-Oyster White, YHA198-Mat'horn White, YHA216-Royal Blue, YHB000-Snow White, YHB663-Jade Mist Green, YHE294-Chilli Red, YHF991-Mauritius Blue, YHK990-Flag Blue, YHS056-Fight. Lady Yellow, YHS070-Cream, YHS187-Polar White, YHS248-Arctic White, YHS253-Pearl White, YHS299-Rochelle Red, YHS936-Lauderdale Blue, YHY999-Jet Black
<b>Finish</b>	High Gloss
<b>Specific Gravity</b>	1.17
<b>Volume Solids</b>	49%
<b>Mix Ratio</b>	Mix ratio 2:1 by volume (as supplied)
<b>Converter/Curing Agent</b>	YGB001
<b>Typical Shelf Life</b>	2 yrs
<b>VOC (As Supplied)</b>	486 g/l
<b>Unit Size</b>	750 ml, 2.5 lt

Note: Not all colours or pack sizes are available in all countries. Consult with your local Technical Representative for further information.

#### DRYING/OVERCOATING INFORMATION

	<b>Drying</b>			
	10°C (50°F)	15°C (59°F)	23°C (73°F)	35°C (95°F)
Sandable	24 hrs	24 hrs	16 hrs	12 hrs
Pot Life	4 hrs	3 hrs	2 hrs	1 hrs

**Note:** Pot life refers to the Working Pot Life.

	<b>Overcoating</b>							
	<b>Substrate Temperature</b>							
	10°C (50°F)		15°C (59°F)		23°C (73°F)		35°C (95°F)	
Overcoated By	Min	Max	Min	Max	Min	Max	Min	Max
Perfection (Professional)	-	4 days	-	3 days	-	2 days	-	1 days

**Note:** When spraying, product may be overcoated when touch dry.

#### APPLICATION AND USE

##### Preparation

##### PREVIOUSLY PAINTED SURFACES

**In Good Condition** Wash down with Super Cleaner, rinse with fresh water and allow to dry. Abrade with 280-320 grade (grit) paper.

**In Poor Condition** Remove all previous coatings and prime the substrate.

**PRIMING** Substrate preparation is covered separately on the primer datasheet.

**BARE WOOD** Prime with Interprime 820.

**STEEL/ALUMINIUM** Prime with Interprime 820.

**GRP** Wash down with Super Cleaner, rinse with fresh water and allow to dry. Abrade with 180-220 grade paper.

**AGED/WEATHERED GELCOATS** Due to the potentially porous nature of aged/weathered gelcoats the risk of solvent/moisture entrapment after painting is much higher than when gelcoat is new. As a result this entrapment could lead to blistering of the paint film. To reduce the risk of paint film blistering it is recommended that 3 coats of Interprotect are applied to seal the gelcoat. Interprotect must be overcoated with Perfection Undercoat prior to topcoat application.

**ALL SUBSTRATES** Use Perfection Undercoat or Interprime 880 prior to topcoat application. Sand the Perfection Undercoat or Interprime 880 with a minimum of 400 grade wet or dry paper. Ensure the surface is thoroughly cleaned. The use of tack rags and a reputable Wipe Down Solvent can help achieve the required level of cleanliness. During the

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	cleaning process, wash down solvent or water must not be allowed to dry on the surface. Residues must be removed using dry paper wipes. Any sanding residue remaining on the surface can impair the finish.
<b>Method</b>	For the best finish, the first coat should be applied thickly enough for even coverage and flow, but do not attempt to achieve full opacity. Do not apply a dry tack-coat first. Leave first coat until it is "touch dry". Apply a full coat. When this coat is touch dry, apply a further 1 or 2 full coats (depending on colour) to achieve full coverage. If more paint needs to be applied, wait at least another 24 hrs before proceeding, to avoid solvent entrapment.
<b>Hints</b>	<b>Mixing</b> Stir contents of each part prior to mixing. Mix the base and curing agents of Perfection (Professional) together at the specified mix ratio. Add Curing Agent to the Base, stir and leave for 20 minutes to allow bubbles to disperse. <b>Thinner</b> YTA910, YTA920 <b>Thinning</b> Mix base and curing agent first and then thin as required. The choice of thinners will depend on the ambient temperature, the spray gun set up, application techniques and paint viscosity. As a general guide: 10-20°C - YTA910; 18-35°C - YTA920. For fuller guidelines on thinning, consult the Professional Application Manual. <b>Cleaner</b> YTA910, YTA920 <b>Ventilation and Humidity Control</b> Apply in dry, well ventilated conditions. Avoid excessively humid conditions, over 80% relative humidity. <b>Conventional Spray</b> For conventional spray applications reduce viscosity to 14s, DIN 4 cup or equivalent. Pressure: 3-4 bar. Tip Size: 1.0-1.4 mm. <b>Other</b> If using as a deck paint, mix in non-slip additive. Full hardness is achieved after 7-10 days at 15°C/59°F. If required, Perfection Matting Additive (YZM914) is available for use with Perfection (Professional). See Perfection Matting Additive datasheet for details on use.
<b>Some Important Points</b>	Product temperature should be minimum 10°C/50°F and maximum 35°C/95°F. Ambient temperature should be minimum 10°C/50°F and maximum 40°C/104°F. Substrate temperature should be minimum 10°C/50°F and maximum 40°C/104°F. Do not use in high wind. Avoid painting in direct sunlight. Avoid humid conditions. Do not apply over conventional paints or flexible constructions. Do not use unless mixed thoroughly with the curing agent at specified ratio. Not suitable for permanently immersed surfaces. Avoid applying late in the evening as condensation can cause a loss of gloss during overnight cure. Allow to dry in a well ventilated environment. If red Perfection (Professional) is to be used then a full coat of glazecoat should be used as a final coat after full opacity has been achieved with the pigmented system to prevent premature loss of gloss or colour change.
<b>Compatibility/Substrates</b>	Apply only over sanded polyurethane finishes, International's Perfection Undercoat or Interprime 880. Ensure all sanding residues are removed before application of the Perfection (Professional) finish.
<b>Number of Coats</b>	Half coat + two full coats minimum
<b>Coverage</b>	(Theoretical) - 13.24 m <sup>2</sup> /lt (Practical) - 8 m <sup>2</sup> /lt
<b>Recommended DFT per coat</b>	37 microns dry
<b>Recommended WFT per coat</b>	76 microns wet
<b>Application Methods</b>	Conventional Spray

#### TRANSPORTATION, STORAGE AND SAFETY INFORMATION

<b>Storage</b>	<b>GENERAL INFORMATION:</b> Exposure to air and extremes of temperature should be avoided. For the full shelf life of this product to be realised ensure that between use the container is firmly closed and the temperature is between 5°C/41°F and 35°C/95°F. Keep out of direct sunlight. <b>TRANSPORTATION:</b> Perfection (Professional) should be kept in securely closed containers during transport and storage.
<b>Safety</b>	<b>GENERAL:</b> Contains isocyanates which may be harmful to the respiratory tract. Read the label safety section for Health and Safety Information, also available from our Technical Help Line. <b>DISPOSAL:</b> Do not discard tins or pour paint into water courses, use the facilities provided. It is best to allow paints to harden before disposal. Remainders of Perfection (Professional) cannot be disposed of through the municipal waste route or dumped without permit. Disposal of remainders must be arranged for in consultation with the authorities.
<b>IMPORTANT NOTES</b>	<i>The information given in this sheet is not intended to be exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk and we can accept no responsibility for the performance of the product or for any loss or damage (other than death or personal injury resulting from negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.</i>

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