

Thank you for buying International Perfection

Perfection is a 2-part, high performance polyurethane gloss finish.

Due to its excellent flow characteristics it enables amateur users to obtain professional quality results with ease.

As well as ultra-high gloss and colour-retention, it is both abrasion-resistant and chemically-resistant to diesel, petrol, oil, mild acids and alkalis.

Its unique package of UV filters combine with the chemical cure to give the longest possible life.

Read these instructions thoroughly before starting and be assured of a good result, just like a professional applicator.

The application is complete in 3 steps.

Step 1 – Preparation

Step 2 – Priming

Step 3 – Painting the finish coats

These instructions tell you how to apply **Perfection** to a bare fibreglass topside or one that has been coated previously with a 2-part polyurethane coating.

Any other substrate will require priming after preparation, but from the priming step onwards the application process is exactly the same.

Your own health and safety is very important, so for a professional finish make a professional start: ensure that you wear the protective equipment recommended in these instructions throughout the job.

Perfection must never be sprayed by amateur users. Only professional applicators with specialist personal protective equipment and full training may spray this product.

Step 1 – Preparation

To obtain the best possible finish, you need to learn what the professionals already know - The most critical aspect of a painting job is preparation; you should expect to spend up to 80% of the time on preparation and undercoating.

Don't be too eager to begin painting. Prepare yourself for the job by reading the advice given in our Boat Painting and Product Guide and on our web site at yachtpaint.com, and of course read the product label instructions thoroughly before you start.

Collect together the tools and materials that you will need:

- A dual action or random orbital electric sander, a sanding block and both 240 and 400 grade sand paper

- Marine grade tack rags that are suitable for two pack polyurethane finishes to remove all traces of dust
- You will also require some cups for measuring and mixing the paint and a roller tray
- For cleaning the boat use a good quality cleaner, like Yacht Line Super Cleaner, for removing wax, oil, grease and dirt from the gelcoat. You will also need sponges and cloths
- Tape for masking, such as 3M Finesline Masking Tape
- Watertite Epoxy Filler for filling small areas of damage
- For application of the undercoat and finish you will need good quality brushes and we recommend you use brushes with fine, burred-end or chiselled bristles made from badger hair or china bristle, 8 to 10 cm in width for the best results
- In addition, you will need a number of high density, solvent-resistant, small-cell foam rollers. The types with the plastic inserts are the best to choose. Clean new rollers and brushes thoroughly before using. Give them a final rinse in Thinners No. 9 and allow to dry. A good tip is to tie the bristles with elastic or paper to prevent them splaying while drying

Collect together the personal protective equipment that you must use for the job:

- You will need safety eyewear, either safety spectacles or goggles. These will help prevent damage to your eyes from splashes of paint or thinners
- You will also need a number of particulate respirators to wear when you are sanding and dusting-off, to prevent you from breathing-in dust
- When applying Perfection by brush or roller you will need a cartridge respirator with a number of suitable filters. For details of filter suitability for use with diisocyanates see the packaging or contact the supplier. Filters should be changed frequently during application, in accordance with manufacturers instructions
- To protect your hands you will need several pairs of nitrile rubber gloves and finally you will need overalls to cover your body, arms and legs

Choice of location:

When painting with Perfection undercoat and topcoat you should choose a location which is dry, well ventilated and out of direct sunlight.

Anyone not involved in painting should be kept outside the area around the boat.

Now you are ready to begin preparing the boat.

Start by removing through-hull fittings or taping around them if they are too difficult or awkward to remove.

Peel off any vinyl lettering. Ensure all traces of adhesive are also removed. If your lettering is painted on it can be sanded off later. Next, clean the hull with Yachtline Supercleaner to remove any traces of waxes, oil and dirt. Simply add 20 capfuls of Supercleaner to every litre of fresh water used, and wash the entire surface thoroughly with the solution using a sponge. Then rinse thoroughly with fresh water and allow it to dry.

Fill any scratches and gouges with International Watertite Epoxy Filler. Clean the area to be filled to remove dust. Mix equal amounts of both components thoroughly to an even, light blue colour. Apply with a pallet knife or spreader. Overfill the area slightly and when hard sand back to a flush finish.

Before you start sanding, make sure that your dust respirator fits snugly to your face and it will not allow any dust to enter. Consult the instructions on the packaging.

Start the sanding work using the electric sander and the 240 grade sand paper. Use 240 grade sand paper with the block to hand-sand any areas you could not reach with the electric sander.

Vacuum or brush off sanding dust. Then clean the hull again with water and Yacht Line Super Cleaner, rinse thoroughly with fresh water and allow it to dry

Now check for any small scratches that you have missed and fill them as before. Hand sand them until the surface is smooth. Then clean these areas again, rinse thoroughly and allow it to dry

Now mask carefully around the waterline and rubbing strake with the tape.

That's step one complete. You're well on your way to Perfection.

Step 2 – Priming

Now you are ready to apply the **Perfection Undercoat**.

It is very simple to do, and it sands to an exceptionally smooth, matt finish so it is easy to check hull fairness.

In cases where the gelcoat is in very poor condition, it must be primed with Interprotect before the application of the **Perfection Undercoat**. Contact International for guidance if you are unsure whether Interprotect is required on your boat.

Firstly put on your safety glasses, gloves, overalls and respirator then stir the contents of each component. The components must be mixed in the volume ratio of base to curing agent shown on the product label. Measure out appropriate volumes, by decanting the components in to a separate container, a paint kettle for example. Stir thoroughly together and then leave for 10 minutes to allow any bubbles to disperse. Tack rag the surface to ensure all traces of dust are removed.

Now you can begin to apply the undercoat.

Start somewhere where the overlap won't be noticeable such on the bow or on the corner of the transom.

Roller-apply an even coat on one section and lightly tip off the surface vertically with a brush to remove any roller stipple. Be careful not to apply the coat too thickly so as to avoid runs and sags.

Move to the next section – roller and tip off with a brush in the same way. Along the overlap, quickly work the brush up and down over the surface to merge the layers together, then lightly tip off with the brush vertically to finish.

When you have finished the first coat, clean the brush and suspend it in Thinner No. 9. Discard the roller when it's dry. Allow the first coat to dry. See the product label for details of the over-coating times, these will vary, depending on the ambient temperature. For example, at 23°C the second coat can be applied after 10 hours, so leave it overnight.

Apply the second coat in the same way as the first, rolling and tipping off with a brush. Make sure you recoat the entire area. When you have finished the job, thoroughly clean the brush in Thinners No 9 and discard the roller when its dry. Leave the second coat to dry overnight following the guidance on the product label.

Now you are ready to machine sand the undercoat surface using 400 grade paper. Hand sand over the remaining areas you could not reach with 400 grade paper and the sanding block.

Finally, dust off the hull thoroughly.

Step 3 – Painting the Finish Coat

Now you are ready to apply the finish coat. You will want to pick the best time to apply the finish coat:

- Avoid painting the surface in direct sunlight or in the evening as condensation can cause a loss of gloss overnight. The best time to apply it is in the morning after the dew has left the surface
- Avoid painting outside in windy conditions. This will make the solvent evaporate too quickly and blow dust and debris into the wet paint
- Avoid painting in poorly ventilated areas as damp conditions may result in dull hazy finishes. As with all 2-part polyurethanes good ventilation and dry environment are essential for maximum solvent release

Firstly put on your safety glasses, gloves, overalls and respirator. Clean the brush and roller prior to mixing. Stir the contents of each component. The components must be mixed in the ratio of 2 volumes of base to 1 volume of curing agent so measure out appropriate volumes, by decanting them into a separate container. Stir them thoroughly together and then leave for 20 minutes to allow bubbles to disperse. Ensure your brushes and rollers are clean before you start.

Make sure you have some Thinners No. 9 to hand in case the mix needs to be thinned slightly and for cleaning up spills.

Thoroughly dust off the hull with a tack rag to remove final traces of dust.

Start by rolling an even coat in the same way as you applied the undercoat but choose a smaller section so that the leading edge is still wet when you paint the next section. Then lightly tip off the entire surface of the section vertically with the brush. This method works particularly well when 2 painters work side-by-side: one with the roller, the other tipping-off with a brush. Hold the brush at an angle of 45° to the surface as this minimizes brush marks.

For areas that are to be painted by brush only, application involves 3 simple steps to get the best possible finish:
Step 1 – Brush apply in diagonal strokes from the left and right
Step 2 – Spread the paint further using horizontal strokes
Step 3 – Tip-off the surface with light brush strokes vertically down from the top, and upwards from the bottom. This results in any brush marks and bubbles flowing out and gives a super smooth, glossy finish.

Be sure to change or clean the brushes and rollers regularly to get the best possible finish.

Only add Thinner No. 9 to the paint if the ambient temperature is high and the brush feels like it is dragging on the surface. Add a maximum of 10% thinner, no more.

When you have finished the first coat, leave it to dry overnight. Consult the product label for the minimum overcoating times as these are temperature dependant.

When it is ready to overcoat, remove any imperfections like sags or dirt using 400 grade sand paper. Then lightly sand the entire surface with the 400 grade paper

As before, remove all traces of dust by dusting off and finish using tack rags.

Apply the second and final coat in exactly the same way as the first:

- Stir the components thoroughly
- Measure out and mix the components
- Leave it to stand for 20 minutes
- Roll and brush apply an even coat, and carefully tip-off the surface on the way

The application is now complete and there are just a couple of things you need to do to conclude your **Perfection** painting project:

- When the paint has dried to a hard finish, remove the masking tape with care so as not to pull off paint accidentally
- Put back the skin fittings and any vinyl lettering

The finished result is absolutely stunning – it looks as though it was painted by a professional applicator. So sit back and watch the admiring glances –

Now you can go and spend more time enjoying your boat – Perfection!

Drying and Overcoating Information								
Drying								
	5°C		15°C		23°C		35°C	
Touch Dry (ISO)	11 hrs		7 hrs		4 hrs		3 hrs	
Pot Life	5 hrs		3 hrs		2 hrs		1 hrs	
Overcoating Substrate Temperature								
	5°C		15°C		23°C		35°C	
Overcoated by Perfection	Min	Max	Min	Max	Min	Max	Min	Max
	28 hrs	4 days	14 hrs	3 days	6 hrs	2 days	4 hrs	1 days