

Durepox

The Choice of Champions



Durepox The Choice of Champions has been coating high profile boats for over 25 years.



Durepox is a hugely versatile coating that has been used extensively worldwide on marine craft like Americas Cup, Sail GP, and Maxi racing yachts. Perfected for carbon fibre, its uses in the industry are varied and wide Emirates Team NZ have used Durepox on all their boats for over 25 years. In the 37th Americas Cup, the AC40 one design foiling yachts have all been painted with Durepox from manufacture.

Durepox can be used on all surfaces of carbon craft including the underwater hull, top sides, decks and rigging, delivering outstanding adhesion, water resistance, weight savings and full colour options, all in one product system. Independent testing has shown that Durepox can reduce drag by up to 15%, compared to most other finishes.

Why use Durepox?

Durepox provides a very light and durable system of primer/sealer and topcoat, and combined with Resene's world leading colourants, deliver strong, durable and UV stable custom colour finishes. Often used as a topcoat on racing boats for the excellent water barrier properties and exceptional weather stability. On a practical level, painters value its fast drying, high build properties and quick repair.

Why is Durepox more durable?

It is a unique epoxy urethane, which means it combines high-tensile strength and compatibility with flexible materials needed in marine environments. It has incredible adhesion to carbon fibre, fibreglass and many other substrates.

What makes it so light?

Durepox can be used as a filler, primer and topcoat all in one, saving litres of paint and hence kilograms – making yachts lighter and therefore faster.

Other Uses

Durepox is a very versatile product, and is often used on substrates such as Steel, Galvanised Iron, Aluminium, Fibreglass, Wood and MDF substrates and Concrete and cementitious products due to its unique and incredible adhesion capabilities.

As a "one product" or "Direct to Substrate" primer/sealer/topcoat system, it provides unparalleled ease and simplicity for applicators, with the trust that comes from decades of use in some of the toughest conditions for protective coatings.



Durepox ETCH PRIMER

The Choice of Champions



An acid-cured vinyl-butylal/phenolic resin combination-etch primer suitable for use on all ferrous and non-ferrous metals.



USES/APPLICATIONS

- Can be used on all ferrous and non-ferrous metals
- Can be used as a rust inhibitor primer



FEATURES

- Great adhesion
- Does not require sanding sealers
- Easy to apply by spray, brush or roll



BENEFITS

- No sanding required
- Can be overcoated with both one & two component products

PRODUCT - D6.101

DUREPOX ETCH PRIMER BASE

DUREPOX ETCH PRIMER CATALYST

COLOURS

 .144 Yellow

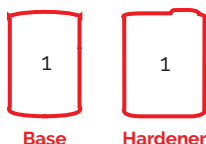
 .999 Clear

PACK SIZE

4L

4L

Mixing ratio (volume)



Resene
Automotive & Light Industrial

OFFICIAL SUPPLIER | Emirates TEAM NEW ZEALAND
Barcelona 2024



High build primer that can be used for fine fairing, based on free sanding two component epoxy urethane technology.



Courtesy of Austrian Ocean Racing



USES/APPLICATIONS

- Used as a high build primer
- Can be used over: Composite (Carbon Fibre, GRP - Polyester & Epoxy), Steel, Aluminium, Wood & MDF



FEATURES

- Excellent adhesion to a variety of substrates
- Excellent filling properties
- Long term hold out
- Excellent Sag Resistance
- Easy application and sanding



BENEFITS

- Provides a stable base for many two component topcoats

PRODUCT - D6.103

DUREPOX HIGH SOLIDS PRIMER

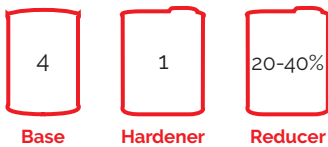
COLOURS

○ .001 White

PACK SIZE

1L
4L

Mixing ratio (volume)



Details of hardener, reducer and accelerator on page "Ancillaries"



Courtesy of Austrian Ocean Racing

DurepoX 2K PRIMER

The Choice of Champions



A unique highly pigmented free sanding two component epoxy urethane primer.



Courtesy of Black Pepper Shipyard



USES/APPLICATIONS

- Used as a High build, Primer and Top Coat
- Can be used over: Composite (Carbon Fibre, GRP - Polyester & Epoxy), Steel, Aluminium, Wood & MDF



FEATURES

- Remarkable flexibility.
- Great adhesion.
- Fast dry.
- It is an excellent water barrier and shows superior weather ability
- Can be tinted to give a coloured topcoat



BENEFITS

- Saves layers of paint, reducing cost and weight, up to 20kgs on a 20m yacht
- Provides a stable base for single and two-component coating systems
- Available in a range of RAL or other industry standard colours

PRODUCT - D6.105

DUREPOX 2K PRIMER

COLOURS

● .708 Black

PACK SIZE

1L
4L

DUREPOX 2K PRIMER

● .715 Grey

1L
4L

DUREPOX 2K PRIMER

○ .001 White

1L
4L

DUREPOX 2K PRIMER

● .144 Luminous Yellow (RAL 1026)

1L
4L

DUREPOX 2K PRIMER

● .151 Luminous Orange (RAL 2005)

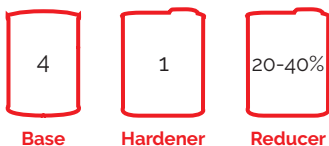
1L
4L

DUREPOX 2K PRIMER - TINTED

● Custom colour

1L
4L

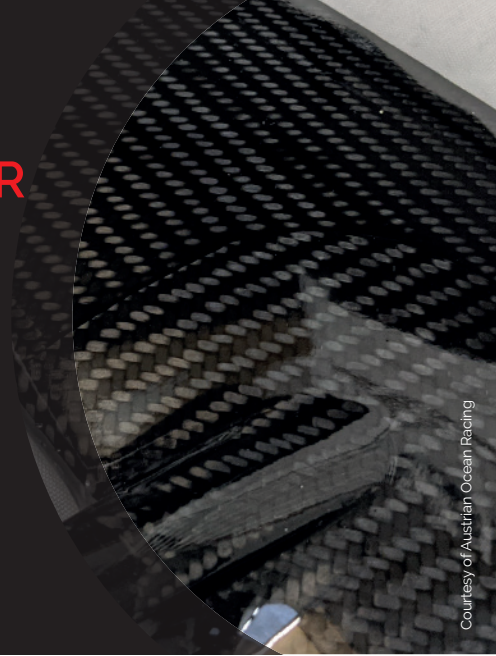
Mixing ratio (volume)



Details of hardener, reducer and accelerator on page "Ancillaries"



A two component epoxy urethane clear used as a clear coating for various substrates directly coated over Durepox 2K Primer.



Courtesy of Austrian Ocean Racing



USES/APPLICATIONS

- Can be used over Durepox Primer or bare substrates.
- Can be used over: Composite (Carbon Fibre, GRP - Polyester & Epoxy), Steel, Aluminium, Wood & MDF



FEATURES

- Remarkable flexibility
- Great adhesion
- Does not require sanding sealers
- Fast drying
- Easy to apply by spray, brush or roll
- It is an excellent water barrier and shows superior weather ability



BENEFITS

- High film build & low in physical weight
- Extremely durable and hard wearing
- Can be tinted to a range of RAL or other industry standard colours

PRODUCT - D6.301

DUREPOX HIGH PERFORMANCE

DUREPOX HIGH PERFORMANCE - TINTED

COLOURS

○ .000 Clear

● Custom colour

PACK SIZE

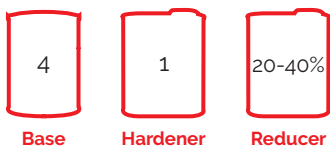
1L

4L

1L

4L

Mixing ratio (volume)



Details of hardener, reducer and accelerator on page "Ancillaries"



Courtesy of Les Auteurs d'Olivier Yacht Painter

DurepoX XTREME CLEAR

The Choice of Champions



A two component epoxy urethane clear coating. Optimised to provide increased UV, temperature and abrasion resistance.



courtesy of Les Ateliers d'Olivier Yacht Painter



USES/APPLICATIONS

- Used on Foils, Rudders and Dagger boards for racing yachts
- Can be used over: Composite (Carbon Fibre, GRP - Polyester & Epoxy), Steel, Aluminium, Wood & MDF



FEATURES

- Excellent adhesion to a variety of substrates
- Excellent filling properties
- Can be tinted to give a coloured Topcoat



BENEFITS

- Higher crosslink density giving tougher coating with superior slip and abrasion resistance
- Can be applied direct to many substrates

PRODUCT - D6.303

DUREPOX XTREME

COLOURS

○ .000 Clear

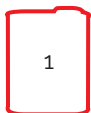
PACK SIZE

1L
4L

Mixing ratio (volume)



Base



Hardener



Reducer



Details of hardener, reducer and accelerator on page "Ancillaries"



ANCILLARIES

DUREPOX 2K HARDENER



A clear colourless Aliphatic Polyisocyanate resin solution used as the hardener component for Durepox High Solids, 2K Primer, High Performance & Xtreme Clear. This hardener is designed to reduce critical recoat time, increase dry time and improve chemical resistance.

PRODUCT - D6.202	COLOURS	PACK SIZE
DUREPOX 2K HARDENER	○ .000 Clear	0,25L 1L 5L

DUREPOX REDUCER



Thinner for use with Durepox.

PRODUCT	COLOURS	PACK SIZE
DUREPOX REDUCER 400 NORMAL - D6.402	○ .000 Clear	1L 4L
DUREPOX REDUCER 400 SLOW - D6.404	○ .000 Clear	1L 4L

DUREPOX ACCELERATOR



62C Accelerator is an additive for Durepox products. Addition of up to 5% by volume of 62C Accelerator will approximately halve curing and pot life times.

PRODUCT - D6.602	COLOURS	PACK SIZE
DUREPOX ACCELERATOR 62C	○ .000 Clear	0,25L 1L

BRUSHING DUREPOX PRODUCTS

PREPARATION

- Thoroughly clean the substrate using both water and solvent borne cleaning agents, prior to sanding. It is also advised to work in small areas, cleaning and rinsing the area frequently with clean water.
- Check for 'grease-free' cleanliness by wetting the surface with clean fresh water.
 - If no 'water-break' is observed, then the surface may be considered grease-free.
 - If a break is detected, re-wash and re-rinse as above.
- Allow to dry.

BRUSH & ROLLER APPLICATION

- Always wear recommended PPE (Personal Protective Equipment).
- Always use a good quality 10mm mohair roller sleeve and or Nylon/Polyester brush, suitable for use with solvents, to obtain optimum results.
- Roll or brush out a section that can be comfortably worked on (bearing in mind the 3-5 minute wet-edge hold out time), being careful not to overload paint thickness particularly on the vertical.
- Always use R400 Slow Reducer for roller or brush application. The use of the 4:1:2 thinning ratio may be used in the final coat to aid the levelling or flow out.
- Tip off the rolled or brushed paint with the wetted-out brush to remove roller stipple, and brush marks. Always finish off with vertical strokes on large flat upright areas with a wetted-out brush. Continue with rolling or brushing as quickly as possible in order to retain the applied paints wet edge.
- For large surface areas, it would be advisable to paint as a two-person team, one rolling or brushing with the other tipping off immediately behind.
- Normally 2-3 coats are required to obtain the required film build, keeping in mind that a final sand before polishing may be required. Once again this is relevant to the condition of the substrate.
- Depending on film build obtained, leave to cure for 1-2 hours between coats. 2 hours would be the maximum time allowable before sanding between coats when normal film build has been obtained.
- Lightly sand with P600 grit paper to de-nib and de-gloss between coats.
- Clean area thoroughly as previously described before applying additional coats. It is advisable to test an area first when cleaning with solvent borne cleaners to prevent any unnecessary marking of the surface.
- Re-apply Durepox Clear as described above to obtain a desirable finish.
- Once completed, leave to cure overnight. Sand and polish if required.

SANDING

- Sand by hand or machine using P240- P400. The grade of sandpaper used will be relevant to the condition of the substrate.
- Dust off area thoroughly.
- Clean area with suitable degreaser.
 - Always use the two-rag method. ie. One on, one off, changing rags often.
- Clean area with tack rag ready for painting.



TIPS

- Always wear recommended PPE (Personal Protective Equipment).
- Ensure thorough cleaning/degreasing has been performed prior to each coating stage, as this has a direct effect upon coating adhesion.
- Ensure all surfaces are clean and dry prior to coating.
- Follow product TDS where applicable.
- Read and follow all safety information on the TDS before starting.
- Always keep your brush or roller lubricated with fresh paint.
- Do not apply upon surfaces in direct sunlight.
- Weather conditions are vital to the overall look of the finished job:
 - Minimum ambient temperature 8°C
 - Maximum ambient temperature 30°C
 - Maximum relative humidity 85%
- If in doubt always contact your local supplier of products.

If carrying out large repaint work in a non controlled environment Do not apply paint if relative humidity

SUBSTRATE	PREPARATION	ETCH PRIMER
<p>Composite: Carbon Fibre and GRP (Polyester and Epoxy)</p>	<p>1. Remove all mould release agents. 2. Abrade with P150 / P180 Grit by hand or machine or garnet blast. 3. Fill and shape if required. Air blow and clean down always wearing gloves & lint free cloths.</p>	
<p>Steel Heavy / Light</p>	<p>Heavy Steel: 1. Degrease the surface. 2. Grit Blast to SA2.5 with Garnett Grade C to 30 micron profile. Light Gauge Steel With No Millscale: 1. Degrease the surface. 2. Abrade with suitable abrasive such as P150 / P180 grit. 3. Preheat steel is always good practice. Air blow and clean down always wearing gloves & lint free cloths.</p>	<p>1. Not applicable for steel with Millscale removed followed by grit blasting.</p>
<p>Galvanised Steel</p>	<p>Heavy Steel Galv / Light Steel Galv: 1. Degrease the surface. 2. Preheat steel is always good practice. Air blow and clean down always wearing gloves & lint free cloths.</p>	
<p>Aluminium</p>	<p>After Cleaning & Degreasing 1. Abrade with P150 / P180 by hand or machine. Air blow and clean down, always wearing gloves and using lint free cloths Preheat Aluminium is always good practice</p>	<p>1. Use Durepox Etch primer. 2. Allow min 3hr to dry.</p>
<p>Wood / MDF</p>	<p>MDF 1. Sand smooth / Finish sand with P240 / P320 grit including edges. Timbers with Grain 1. Sand smooth / Finish sand with P240 / P320 grit in the direction of the grain. Sand edges. Air blow and clean down always wearing gloves & lint free cloths.</p>	

Durepox 2K primer is a very unique two component epoxy Urethane that can be applied by brush, roller, airless, air assisted airless, electrostatic and conventional gravity or pressure pot spray. Durepox has many applications from hi build primers to being used as coloured topcoats in conjunction with Durepox High Performance Clear (DHPC). Other 2K topcoats can be applied over Durepox after full cure and sanding, test an area first before completing entire project.

is above 85% or temperature is within 3 deg C of Dew Point being the MPT or Minimum Paint Temperature.



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