

# Polyester Resins & Fillers



Bondaglass

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Station Road, Worstead, North Walsham, NR28 9RZ

## Bonda Resin

A high strength marine grade polyester resin with thixotropic additive. Can be used with glassfibre matt or cloth for permanent repairs or reinforcing metal, GRP or woods. Easy mix liquid catalyst provides maximum reactive resin system.



### Pack Product Codes:

250g Pack	BOND-01100-250
500g Pack	BOND-01102-500
1KG Pack	BOND-01104-1KG

### Comp A Product Codes:

2.5KG Comp A	BOND-01106-A
5KG Comp A	BOND-01108-A
25KG Comp A	BOND-01100-25-A

### Comp B Product Codes:

Catalyst for 2.5KG	BOND-02170-B
Catalyst for 5KG	BOND-02172-B
Catalyst for 25KG	BOND-02174-B

## Bonda Gelcoat

A high strength marine grade gelcoat with thixotropic additive. To be used in a mould to get a smooth, even surface. Easy mix liquid catalyst provides maximum reactive resin system.



### Comp A Product Codes:

1KG Clear Comp A	BOND-01186-A
1KG White Comp A	BOND-01204-A
2.5KG White Comp A	BOND-01188-A

### Comp B Product Codes:

Catalyst for 1KG	BOND-02168-B
Catalyst for 2.5KG	BOND-02170-B

## Bonda Top Coat

High strength marine grade top coat with thixotropic additive. Used directly over fibreglass repairs can be faired back to a smooth finish. Easy mix catalyst provides maximum reactive resin system.



### Comp A Product Codes:

1KG Clear Comp A	BOND-01212-A
1KG White Comp A	BOND-01212-A-W
2.5KG White Comp A	BOND-01214-A-W

### Comp B Product Codes:

Catalyst for 1KG	BOND-02168-B
Catalyst for 2.5KG	BOND-02170-B

## Bonda Catalysts

Extra catalyst for the Bonda Resins, Gel Coats and Top Coats.



### Product Codes:

Catalyst for 0.25KG	BOND-02164-B
Catalyst for 0.5KG	BOND-02166-B
Catalyst for 1KG	BOND-02168-B
Catalyst for 2.5KG	BOND-02170-B
Catalyst for 5KG	BOND-02172-B
Catalyst for 25KG	BOND-02174-B



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## Bonda Chop Strand Mat Packs

A blend of polyester grade chop strand mat packs for use with the Bonda Resin system. Used extensively for minor repairs and reinforcing weak areas of fibreglass.



**Product Codes:**

36" x 12" 300gm for 250gm Resin	BOND-03100
36" x 24" 300gm for 500g Resin	BOND-03102
36" x 36" 300gm for 1KG Resin	BOND-03104
36" x 36" 450gm for 1.5KG Resin	BOND-03106
36" x 36" Surface Tissue	BOND-03114

## BONDA G4 Primer

A moisture curing polyurethane sealer which can be applied directly onto woods and concrete prior to painting or varnishing. Leaves a non-porous finish making it ideal for internal or external applications. Thin down the first coat with up to 20% G4 Thinners for best results.



**Product Codes:**

500g	BOND-12180
1KG	BOND-12182
2.5KG	BOND-12184
5KG	BOND-12186

## U-POL Smooth 7 Filler

Smooth 7 polyester filler is a two component chemical paste used for the filling of holes and imperfections in surfaces such as steel, aluminium, GRP and woods. Its been specially formulated for the professional user and combines good filling and smooth spreading properties together with ease of sanding.

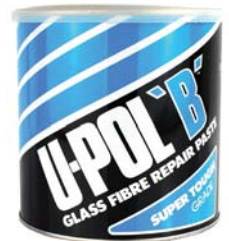


**Product Code:**

3.5L	UPOL-SM-7
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## U-POL B

U-POL 'B' polyester glass fibre filler is a two component chemical paste with glassfibre strands (chop strand mat) used for bridging of holes and rust in surfaces such as steel and GRP. U-POL 'B' forms a very hard, durable surface and can be sanded and shaped if required. It is easily covered with standard polyester filler or can be over-painted with most common paints.



**Product Code:**

1.85KG	UPOL-B
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## U-POL Hardeners

Extra catalyst hardeners for both U-POL Smooth 7 and U-POL 'B'.



**Product Codes:**

Red	UPOL-HARDNER
White	UPOL-HARD-WHT

## Plastic Handle Economy Brush

Low cost disposable brushes which hold their bristle better than the wooden handle version. Ideal for laminating and antifouling.



**Product Codes:**

0.5"	MI-BRPLASTECO-0.5
1"	MI-BRPLASTECO-1.0
1.5"	MI-BRPLASTECO-1.5
2"	MI-BRPLASTECO-2
2.5"	MI-BRPLASTECO-2.5
3"	MI-BRPLASTECO-3
4"	MI-BRPLASTECO-4
6"	MI-BRPLASTECO-6

MOQ of 12

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## Wooden Handle Economy Brush

Low cost disposable brush, ideal for laminating.



### Product Codes:

0.5"	MI-BRECON-0.5
0.75"	MI-BRECON-0.75
1"	MI-BRECON-1
1.5"	MI-BRECON-1.5
2"	MI-BRECON-2
2.5"	MI-BRECON-2.5
3"	MI-BRECON-3
4"	MI-BRECON-4

MOQ of 12

## Radiator Roller Refill Covers

Range of different styled roller covers to suit the 4" radiator roller frame.



### Product Codes:

Solvent Resistant	MI-ROLRADSOLVRES
Sheep Skin	MI-ROLRADSHEEP
Mohair	MI-ROLRADMOH
Foam Square Edge	MI-ROLRADFOAM
Foam Round Edge	MI-ROLRADFOAM-R

MOQ of 10

## Roller Frames

High quality steel bird-caged roller frame on plastic handle with lip to hold in place on roller tray.



### Product Codes:

7" x 1 3/4"	MI-FRCAGE38-7
7" x 1.75"	MI-FRCAGE45-7
9" x 1.75"	MI-FRCAGE45-7

## Radiator Roller Frames

High quality steel spindle frame on plastic handle lip to hold in place on roller tray.



### Product Codes:

4" Long Handle	MI-FRRAD-4L
4" Short Handle	MI-FRRAD-4S

## Roller Trays

Roller trays made from a tough thermo-set plastic which paints and epoxies cannot adhere to. Once paint/epoxy is dry simply bend the tray and remove excess to re-use.



### Product Codes:

4"	MI-ROLTRAY-4
7"	MI-ROLTRAY-7
9"	MI-ROLTRAY-9

## Body Filler Spreaders

General purpose body filler spreaders for use with all types of filler



### Product Codes:

Pack of 10	MI-SPREAD-10
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## Mixing Pots and Buckets

Range of mixing pots, buckets for epoxies, paints etc.



**Product Codes:**

50ml	MI-POTGRAD-50
500ml Mixing Pot	MI-POT-500
1L Mixing Pot	MI-POT-1
2.6L Bucket	MI-BUCKET-2.6
5.6L Bucket	MI-BUCKET-5.6
11L Bucket	MI-BUCKET-11
21L Bucket	MI-BUCKET-21

## WEST SYSTEM Wooden Stirrers

Large wooden stirrers for use with epoxies, paints and other products.



**Product Codes:**

Pack of 5	WS-804B-5
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## Paddle Rollers

High quality steel paddle rollers designed for distributing resins to through heavy matt cloths



**Product Codes:**

2"	WS-811
6"	WS-811B

## WEST SYSTEM Plain Plastic Spreaders

Thermo set plain plastic spreaders for applying epoxies and fillers.



**Product Codes:**

Pack of 2	WS-808-2
Pack of 12	WS-808-12

## WEST SYSTEM Notched Plastic Spreader

Thermo set notched plastic spreaders for applying epoxies and fillers.



**Product Codes:**

Pack of 2	WS-809-2
Pack of 36	WS-809-36

## WEST SYSTEM Mixing Pots

Mixing pot for epoxies, paints and other products.



**Product Codes:**

800ml	WS-805
1.2L	WS-WS-805TD

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## Bonda Resin & Glass Fibre

These materials are very versatile. With liquid polyesters resin and glassfibre almost any shape can be created which is rigid and durable. All that is required is a pattern on which to laminate the G.R.P (glass reinforced plastic).

Laminating with G.R.P is simple, providing the instructions are followed. All that is required is:

- 1. A Pattern** - can be made from many materials
- 2. Bonda Release Agent** - AFH (Product available on request, please contact the office for more details)
- 3. Bonda Gelcoat** - Provides the smooth external surface normally found on laminates - cornices - pillars - balustrade moulds - architrave's - moulds for garden ornaments. The gelcoat can be pigmented in a wide range of colours.
- 4. Bonda Polyester Resin** - A thixotropic resin used for most general purpose laminates. Fire resistant and chemically resistant resins are also available. The resin is mixed with a hardener.
- 5. Glass Fibre** - Randomly woven glass fibre that provides the strength when saturated with Bonda Resin.
- 6. Tools** - For simple laminating all that is required are - brushes or lambswool roller for applying the resin, metal roller for forcing out any trapped air and consolidating the layers together, cleaner and mixing buckets.
- 7. De-Moulding** - the laminate will be hard in a matter of hours depending on it's thickness. It is good practice to leave it in the mould for 24 hours, at reasonable temperatures (18°C).

### Specification

Viscosity @ 25°C	230-270 CPS
Styrene Content	43%
Specific gravity @ 20°C	1.12
Appearance	Pinkish thixotropic
Heat distortion temperature	63°C
Peak exotherm temperature	140 - 160°C

### Typical Curing Characteristics

With the addition of 50% MEKP at 20°C

0.75% by weight	35-40 minutes
1.00% by weight	20-25 minutes
2.00% by weight	16-18 minutes

At lower temperatures the gel time is extended.

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## Surface Preparation

If the laminate is to be bonded down, all surfaces must be dry, clean, free of oil and paint and it is also advisable to give them a good mechanical key with a medium to coarse paper. For maximum adhesive use Bonda Marine G4 Primer Sealer.

When moulding, the surface must be treated with a release agent such as AFH. Remember the surface finish on the mould will determine the surface of casting.

## Laminating

Apply a coat of catalysed resin to the substrate if the laminate is being bonded down. In the case of a mould, the surface may have been gelcoated, in which case it must be left until it is very finger-tacky. Application of the resin too soon onto the gelcoat may cause the gelcoat to lift, but this will not be apparent until the casting is de-moulded.

Lay the glassfibre onto the wet resin and using a stippling action with a brush or lambswool roller for the large flat areas saturate with more resin. When applying several layers it is preferable to apply the next layer while the previous one is still wet or tacky. Use a metal roller to ensure that any trapped air is driven out of the laminate so the layers are well consolidated.

Glassfibre can be applied onto a cured laminate but make sure the surface is clean and sanded.

The hardening time varies according to thickness, size and temperature. At 20°C most laminates will be cured after 24 hours. The hardener or catalyst must be thoroughly mixed into the resin.

## Resin Usage

Generally a ratio of 2.5:1 - resin to glass by weight can be used. For gelcoat allow 500-600grams/sqm to give the recommended thickness of 0.4-0.5mm.

## Other Resins

Bondaglass stock a complete range of resins including class 1 & 2, fire retardant resins and gelcoats, chemically resistant resins, casting resins and clear casting resins.

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