

TIMBABUILD®

Super Tough Epoxy Wood Repair System

Epoxy Rapid Cure

Product Description

Chemfix Epoxy Rapid Cure (E.R.C.) is a two-part 1:1 ratio mix solvent free, rapid curing, epoxy based woodfiller. It is specially designed for small repairs to timber which are subject to stress and impact. Its excellent structural strength and adhesion also enables it to be used as an adhesive.

E.R.C. is supplied in a specially designed side-by-side cartridge that fits into a custom made extrusion tool accurately dispensing the material. A unique nozzle attached to the end of the cartridge may be used to blend the base and activator components fully to ensure an accurate mixing. Once cured, Epoxy Rapid Cure can be machined, drilled and accepts nails, screws etc. E.R.C. can be coated with most decorative wood finishes.

Key Features

- Solvent Free - suitable for indoors and outdoors.
- Rapid Curing.
- Cartridge System Ensures Accurate Mixing.
- High Strength & Durability.
- Fast and Simple to Use, Easy to Clean and Store.
- Excellent Adhesion Properties.
- Used by Sash Window Specialists for "same-day" repairs.
- Epoxy formulation does not shrink and gives an excellent bond.
- Approved by Royal Institute of British Architects (RIBA) and NBS.



Available Sizes

400ml 1:1 Nylon Cartridge
+ Specialist Extrusion Tool
Packed 20 x 400ml per carton outer

Conforms to
ISO 9001 & 14001

45 Min Cure

Low Viscosity

Typical Hardening Time*

BASE MATERIAL TEMPERATURE (°C)	45	35	25	15	5
TYPICAL GEL TIME (mins)	3.5	4	5.5	7	15
TYPICAL CURE TIME (mins)	30	30	35	55	70

*This is the typical gel time for 100g of mixed product & cure time for a 90ml mass. Cure time also based on 100g of product, to reach 50 on shore D hardness.

Typical Performance Data

E.R.C.	Drillable	Sandable	Outdoors	Indoors	Weathered	Knotted	Stainable	Mix Ratio	Solids Content	Volume	Primer System	Application Temp.
	•	•	•	•	•	•	•	1:1	100%	400cm ³	EWS	5 - 45°C

Wood may absorb a stain differently to the filler. We would always advise use of a test panel when working with the stains and varnishes.

Typical Physical Property

	E.H.B.4	-	TEST METHOD	STORAGE / SHELF LIFE	IMPORTANT
COMPRESSIVE STRENGTH N/mm ²	25.00	-	(EN ISO 604) (ASTM 695)	This product should be stored between +5°C & +35°C. The Shelf life of the product is 24 months from the manufacture date.	The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.
APPEARANCE	CREAM	-	-		
E MODULUS N/mm ²	970	-	(EN ISO 527) (ASTM 638)		
TENSILE STRENGTH N/mm ²	10	-	(EN ISO 527) (ASTM 638)		
MIXED DENSITY g/cm ³	1.45	-	-		

Construction Chemicals (UK) Limited
75, Town Green Street, Rothley, Leicester. LE7 7NW
Tel - 0116 230 1955 Fax - 0116 230 1944

TIMBABUILD®

Super Tough Epoxy Wood Repair System

Epoxy Rapid Cure

Preparation & Mixing & Application

Prior to application, all surfaces should be clean and sound. See preparation information on Timbabuild EWS data sheet prior to application of Timbabuild Wood Repair Systems.

- 1) Mount the cartridge into the extrusion tool. If using the mixing nozzle, extrude the first 10cm of resin to waste to ensure a consistent mix.
- 2) Apply the E.R.C. directly to the area being filled. Use a spatula or metal scraper to level off the E.R.C.
- 3) For larger repairs plastic shuttering may be required to hold the E.R.C. in place. This can be removed once the E.R.C. has cured leaving a smooth level surface.

Splicing Method

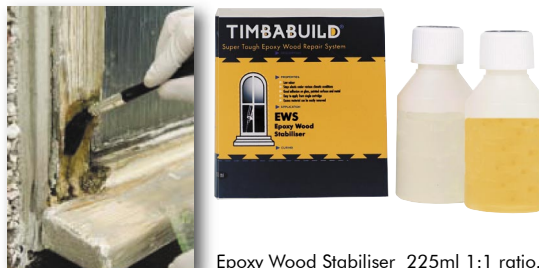
In circumstances where the damage or rot infestation is too extensive, traditional splicing methods may be used. Timbabuild E.R.C. will improve the performance by sealing the joint and increasing the bond strength.

- i) remove the existing section of rotten timber
- ii) Apply EWS to the newly exposed timber and leave for 30 minutes to allow to penetrate.
- iii) Apply E.R.C. to both edges to act as an adhesive/filler.
- iv) After fitting remove any excess material and leave to cure before sanding



Optional Use
Mixer Nozzle

EWS Primer System



Epoxy Wood Stabiliser 225ml 1:1 ratio.

EWS primer system is a specially designed two-part low viscosity, solvent free, resin solution which is designed to strengthen weakened wood fibres by penetrating deep into the wood. The product is used as a primer in conjunction with the Timbabuild Wood Repair systems.

Once the damaged, decayed and discoloured wood has been removed by use of a suitable cutter tool such as a router or chisel, then the area to be treated is lightly sanded to ensure excellent adhesion. The moisture content of the wood should be no greater than 18% (check using a standard moisture meter) and damp wood should be allowed to dry naturally, or by way of a hot air gun. The two components are mixed manually into a separate container, and thoroughly agitated for one minute. The 2:1 mixing ratio should be strictly observed. EWS should be applied directly onto bare wood in the repair area using a standard brush and then left to cure for 30 minutes, prior to carrying out the repair.



400ml Extrusion Tool

Health & Safety

Timbabuild E.R.C. base & activator components are classified as irritants and the activator is classified as corrosive. Ensure protective clothing is worn during use. If material comes into contact with the skin wash off with plenty of soap and water. If irritation persists or a rash appears seek medical advice.

For further information refer to the Material Safety Data Sheet.



Construction Chemicals (UK) Limited
75, Town Green Street, Rothley, Leicester. LE7 7NW
Tel - 0116 230 1955 Fax - 0116 230 1944

TIMBABUILD®

Super Tough Epoxy Wood Repair System

Epoxy High Build 4

Product Description

Timbabuild® Epoxy High Build 4 (E.H.B.4) manufactured by Chemfix, is a two-part thixotropic 1:1 ratio mix solvent free, epoxy based wood filler. It is specially designed for large and extensive repairs to areas of damaged and rot affected timber in both horizontal and vertical applications. It will also directly treat the timber to prevent any further occurrences of decay. E.H.B.4 displays high strength and impact resistance, and is cured and ready to paint within a 4 hour period (at 20-45°C).

E.H.B.4 is supplied in a specially designed side-by-side cartridge that fits into a custom made extrusion tool, accurately dispensing the material. Once cured, Epoxy High Build 4 can be machined, drilled and accepts nails, screws etc. E.H.B.4 is coatable with most decorative wood finishes. The special 'non-slump' formula allows it to seamlessly replace large sections of wood in applications such as windows, doors, beams, gutters, soffits and fascias. This product has a minimum 24 month shelf life.

Key Features

- Solvent Free - suitable for indoors and outdoors.
- Thixotropic - Ideal for Vertical & Horizontal applications.
- Cartridge System Ensures Accurate Mixing.
- High Strength & Durability.
- Fast and Simple to Use, Easy to Clean and Store.
- Used with the EWS primer system.
- Cured and ready for painting within four hours (at 20-45°C).
- Suitable for Splicing Repairs and as an adhesive. (Lamination)
- Used in Renovation contracts to restore listed buildings.
- Epoxy formulation does not shrink and gives an excellent bond.
- Approved by Royal Institute of British Architects (RIBA) and NBS.



Available Sizes

400ml 1:1 Nylon Cartridge
+ Specialist Extrusion Tool
Packed 20 x 400ml per carton outer

Conforms to
ISO 9001 & 14001

4 Hour Cure

Thixotropic

Typical Hardening Time*

BASE MATERIAL TEMPERATURE (°C)	45	35	20	15	5
TYPICAL GEL TIME (mins)	6	10	22	65	110
TYPICAL CURE TIME (mins)	180	180	240	720	1440

*This is the typical gel time for 100g of mixed product & cure time for a 90ml mass. Cure time also based on 100g of product, to reach 50 on shore D hardness.

Typical Performance Data

E.H.B.4	Drillable	Sandable	Outdoors	Indoors	Weathered	Knotted	Stainable	Mix Ratio	Solids Content	Volume	Primer System	Application Temp.
	•	•	•	•	•	•	•	1:1	100%	400cm ³	EWS	5 - 45°C

Wood may absorb a stain differently to the filler. We would always advise use of a test panel when working with the stains and varnishes.

Typical Physical Property

E.H.B.4	STORAGE / SHELF LIFE	IMPORTANT
Appearance - Cream Mixed Density g/cm ³ - 1.10 Available for download at www.timbabuild.co.uk	This product should be stored between +5°C & +35°C. The Shelf life of the product is 24 months from the manufacture date.	The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.

Construction Chemicals (UK) Limited
75, Town Green Street, Rothley, Leicester. LE7 7NW
Tel - 0116 230 1955 Fax - 0116 230 1944

TIMBABUILD®

Super Tough Epoxy Wood Repair System

Epoxy High Build 4

Preparation & Mixing

Prior to application, all surfaces should be clean and sound. See preparation information on Timbabuild® EWS. data sheet prior to application of Timbabuild Wood Repair Systems.

- 1) Mount the cartridge into the extrusion tool and squeeze out the required volume of material onto a suitable mixing board.
- 2) Mix with a spatula or knife until a smooth, even coloured, streak-free mix is obtained.
- 3) Ensure that the filler is scraped clear of the board and spatula at least once during mixing. This ensures that both base and activator are thoroughly mixed together and no unmixed material will be used.

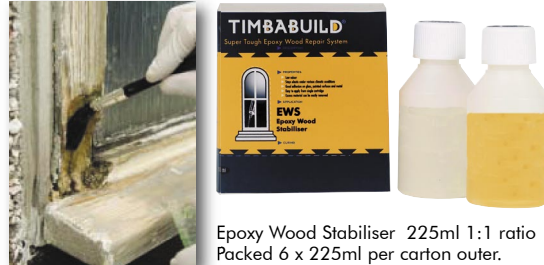
Application

- 1) Spread a small amount of Epoxy High Build 4 using a spatula, knife or similar tool onto the exposed timber to ensure that no air is trapped.
- 2) The Epoxy High Build 4 can then be moulded into the hole leaving it slightly proud with a smooth and even surface.
- 3) Alternatively, a clean, smooth flexible piece of plastic can be placed over the E.H.B.4 to act as a shuttering. Once the E.H.B.4 has cured the plastic can be removed leaving a smooth level surface.

Refer to the Timbabuild® Repair Guide for further information.



EWS Primer System



Epoxy Wood Stabiliser 225ml 1:1 ratio
Packed 6 x 225ml per carton outer.

EWS primer system is a specially designed two-part low viscosity, solvent free, resin solution which is designed to strengthen weakened wood fibres by penetrating deep into the wood. The product is used as a primer in conjunction with the Timbabuild Wood Repair systems.

Once the damaged, decayed and discoloured wood has been removed by use of a suitable cutter tool such as a router or chisel, then the area to be treated is lightly sanded to ensure excellent adhesion. The moisture content of the wood should be no greater than 18% (check using a standard moisture meter) and damp wood should be allowed to dry naturally, or by way of a hot air gun. The two components are mixed manually into a separate container, and thoroughly agitated for one minute. The 2:1 mixing ratio should be strictly observed. EWS should be applied directly onto bare wood in the repair area using a standard brush and then left to cure for 30 minutes, prior to carrying out the repair. Please refer directly to the Timbabuild® EWS data sheet for more details.



400ml Extrusion Tool

Health & Safety

Timbabuild® E.H.B. 4 Base component is classified as an irritant and the activator is classified as corrosive. Ensure protective clothing is worn during use. If material comes into contact with the skin wash off with plenty of soap and water. If irritation persists or a rash appears seek medical advice.

For further information refer to the Material Safety Data Sheet.



Construction Chemicals (UK) Limited
75, Town Green Street, Rothley, Leicester. LE7 7NW
Tel - 0116 230 1955 Fax - 0116 230 1944