



FixFirm

First for service, second to none

Chemical Anchoring Range



☎ 0800 594 4444

🌐 www.fixfirm.com

✉ sales@fixfirm.com

Welcome to FixFirm's 'Buffalo' range of chemical fixing technology. A range extensively researched and produced for use in the construction industry and allied markets.

Our comprehensive range has been specifically designed to provide for all applications and sectors of construction. The clear colour coded selection criteria should ensure you can simply select the fixing resin that is most suitable for your application from pure epoxy through to polyester.

We are able to provide a complete solution with full technical data, support, information, product testing and specific formulations if required for engineers, architects and users of the product. The customer web resource area can be found at www.strongfast-uk.com where you can access technical and health and safety data.

The Buffalo range is supported by the many approvals required by the construction industry to meet international standards and give our customers 100% peace of mind in product performance & regulatory compliance.

FixFirm can offer a 'Pull Out' Testing Service on all of our products to make sure they can support a particular weight within a specified application area

technical@fixfirm.com



CHEMICAL FIXING TECHNOLOGY..



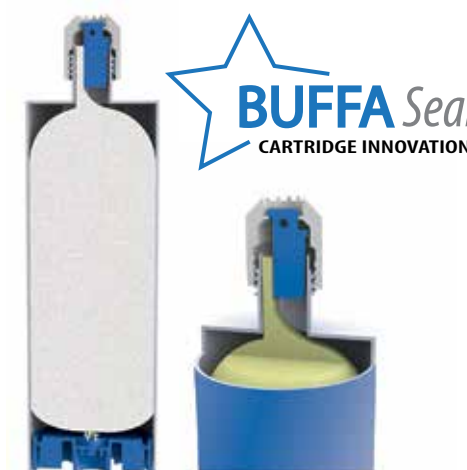
STRONGEST



STRONGER



STRONG



Advantages..

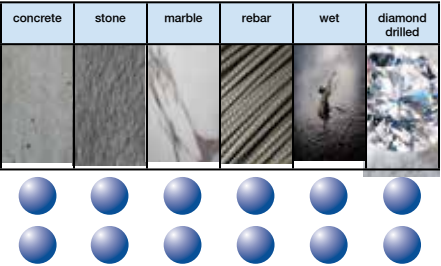
- A new easy open and extrusion system for anchoring cartridges.
- Unique foil bag inner provides an easier extrusion (less force).
- BuffaSeal cap allows re-use, open and close.
- Fuller resin extrusion - more resin where you need it.
- Less plastic used than a traditional coax cartridge (410ml).
- Available in 300ml and 410ml in the resin range.

Contents	Page
Company Profile	1-2
Chemical Anchoring Resin Formulations	
PUR500 Pure Epoxy 3:1 (ETA Approved)	5-6
VYLSF410 Vinylester 10:1 (ETA Approved)	7-8
EPSF410 & 300 (ITB Approved)	9-10
XPSF410 & 300 (ITB & Socotec Approved)	11-12
XP410 & 300 (ITB Approved)	13-14
Anchoring Accessories	
Manual Extrusion Tools	15-16
Spare Mixer Nozzles	15-16
Mixer Nozzle Extensions	15-16
Asphalt Fixings	15-16
Hole Cleaning Accessories	15-16
Hollow Wall Fixing Accessories	15-16



Pure Epoxy Solvent Free 3:1

PUR500 is a pure epoxy fixing resin designed for high load bearing applications in concrete. This product is solvent free with virtually no odour, to allow safe use indoors or in confined spaces. Suitable particularly for rebars and large diameter and deep threaded stud fixings due to its slow gelling action, and zero shrinkage.



Key Features

- Used in Wet Holes or Underwater.
- Ideal for Deep Embedment.
- Longer Working Times, for use with Rebar.
- Highest Durability.
- No Shrinkage.



Approvals



CE Approval



Option 1 - Cracked Concrete
Option 7 - Uncracked Concrete
TR 023 - Post Installed Rebar

BS6920 approved For use with Potable drinking water.

Ordering Information

12pcs per Carton 585ml
+ 1 mixer per cartridge.
12pcs per Carton 385ml
+ 1 mixer per cartridge.

Part BU - PUR500

24 Months Shelf Life

Typical Gel and Curing Time*

*This resin will not cure below +5°C

BASE MATERIAL TEMPERATURE (°C)	40	35	25	15	5
TYPICAL GEL TIME (mins)	10	16	25	60	120
MIN. LOAD TIME (mins)	150	240	480	1200	3000

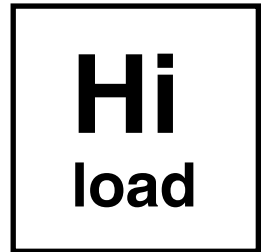
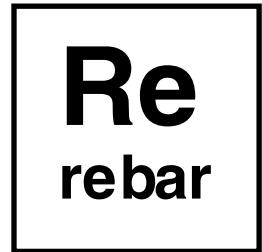
Number of Fixing Holes per Cartridge

STUD DIAMETER (STANDARD EMBEDMENT)	M12	M16	M20	M24	M30
NUMBER OF HOLES PER 585ML CARTRIDGE	76	49	17	11	6

Main Application Types



- Large Diameter & Deep Embedment Fixings
- Rebar Fixing
- Diamond Drilled Holes
- High Loading
- Chemical Exposure
- Dynamic Loads
- Wet and Underwater
- Slower Curing

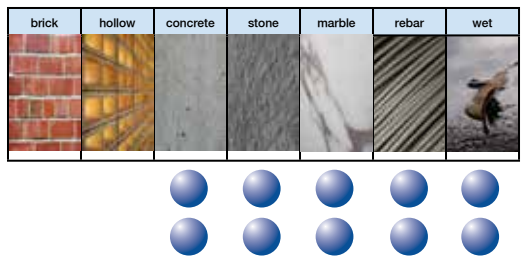




Vinylester Styrene Free 10:1

Product Description

VYLSF410 is a pure vinylester based resin designed for high load bearing applications in concrete. This product is also designed without styrene to allow safe use in confined spaces. Very high chemical resistance and durability. Suitable for large diameter fixing bolts, posts, threaded rods, studs



- Safety & Critical Loads.
- Suited for Overhead & Underwater Applications.
- European Technical Approval (Option 1).
- High Chemical Resistance.
- Guaranteed 50 years working life of the fixing.



Approvals



CE Approval



Option 1 - Cracked Concrete
TR 023 - Post Installed Rebar

Tested by
Imperial College
London
Consultants

Ordering Information

12pcs per Carton 410ml
+ 1 mixer per cartridge.

Part BU - VYLSF410

12 Months Shelf Life

Typical Gel and Curing Time

*Resin Temperature must be at least 20°C

BASE MATERIAL TEMPERATURE (°C)	35	25	15	5	-5	-10*
TYPICAL GEL TIME (mins)	3	5	9	20	40	50
MIN. LOAD TIME (mins)	20	30	60	90	180	240

Number of Fixing Holes per Cartridge

STUD DIAMETER (STANDARD EMBEDMENT)	M12	M16	M20	M24	M30
NUMBER OF HOLES PER 410ML CARTRIDGE	53	34	11	7	4

Main Application Types



- Bridges, Tunnels
- Overhead Fixings
- Safety Critical Applications
- High Loading
- Dynamic Loads
- Wet and Underwater
- Rebar Fixing



Hi
durability

Hi
load

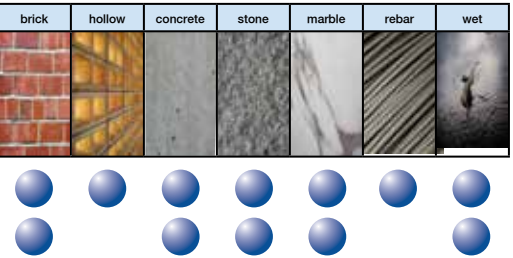


Epoxy Acrylate



Product Description

EPSF Is an epoxy acrylate based fixing resin designed for load bearing applications in concrete. This product is also designed without styrene for use in confined areas. Suitable for bolts, posts, threaded rods, studs and anchors. Ideal for outdoors use.



Key Features

- Used in Wet Holes & Underwater.
- 300ml & 410ml Foil Bag Easy Opening Cartridges.
- Medium & Heavy Duty Load Applications.
- Non-Flammable & Non-Hazardous.
- Ideal for Confined Spaces (Low Odour)



Approvals



European Approval ETAG 029

Tested by
Imperial College
London
Consultants

Ordering Information

15pcs per Carton 300ml
+ 1 mixer per cartridge.

12pcs per Carton 410ml
+1 mixer per cartridge.

Part BU - EPSF300 - 300ml
Part BU - EPSF410 - 410ml

12 Months Shelf Life

Typical Gel and Curing Time

*Resin Temperature must be at least 20°C

BASE MATERIAL TEMPERATURE (°C)	35	25	15	5	-5	-10*
TYPICAL GEL TIME (mins)	3	5	9	20	40	50
MIN. LOAD TIME (mins)	20	30	60	90	180	240

Number of Fixing Holes per Cartridge

STUD DIAMETER (STANDARD EMBEDMENT)	M8	M10	M12	M16	M20
NUMBER OF HOLES PER 300ML CARTRIDGE	86	59	39	25	8
NUMBER OF HOLES PER 410ML CARTRIDGE	117	81	53	34	11

Main Application Types



- Medium Loading
- High Durability
- Indoor & Outdoor Use
- Chemical Exposure
- Dynamic Loads
- Wet and Underwater
- Close to the edge fixings

Hi
durability

Med
load

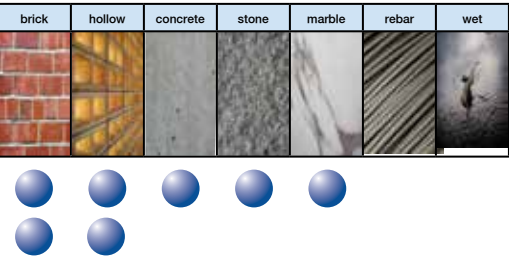


Polyester Styrene Free 10:1



Product Description

XPSF is a polyester based fixing resin designed for load bearing applications in brick, hollow, or aerated concrete. Designed without styrene for use in confined areas. Used for fixing bolts, posts, threaded



Key Features

- Ideal for Indoor Usage (Low Odour).
- 300ml & 410ml Foil Bag Easy Opening Cartridges.
- Medium Duty Load Applications.
- Non Flammable and Non-Hazardous.
- For use in Hollow Wall, Brickwork and Masonry.



Approvals



European Approval ETAG 001
European Approval ETAG 029
For Use in Concrete & Masonry ASSOCIATION



Ordering Information

15pcs per Carton 300ml
+ 1 mixer per cartridge.

12pcs per Carton 410ml
+1 mixer per cartridge.

Part BU - XPSF300 - 300ml
Part BU - XPSF410 - 410ml

12 Months Shelf Life

Typical Gel and Curing Time

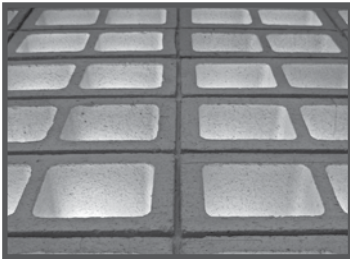
*Resin Temperature must be at least 20°C

BASE MATERIAL TEMPERATURE (°C)	35	25	15	5	-5	-10*
TYPICAL GEL TIME (mins)	3	5	9	20	40	50
MIN. LOAD TIME (mins)	20	30	60	90	180	240

Number of Fixing Holes per Cartridge

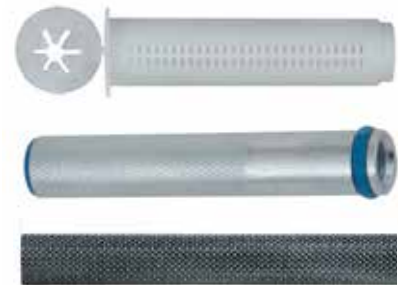
STUD DIAMETER (STANDARD EMBEDMENT)	M8	M10	M12	M16	M20
NUMBER OF HOLES PER 300ML CARTRIDGE	86	59	39	25	8
NUMBER OF HOLES PER 410ML CARTRIDGE	117	81	53	34	11

Main Application Types



- Hollow Wall with Perforated Sleeve
- Masonry Fixings
- Close to the edge fixings
- Medium Load Fixings

Ho
hollow



Also recommended for use with perforated nylon sleeves, metal internal threaded sockets and metal perforated

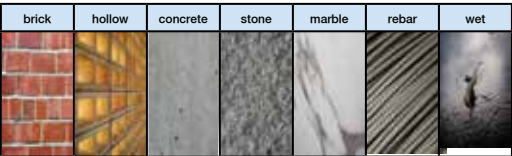
Std
load



Polyester 10:1



XP is a polyester based fixing resin designed as an economical solution for chemical anchoring in low exposure areas, with lightweight to medium loads. Particularly suitable for anchoring studs and bolts into hollow walls and masonry.



Key Features

- Ideal for use in Low Exposure situations.
- Economical Fixing Resin.
- Medium Duty Load Applications.
- 300ml & 410ml Foil Bag Easy Opening Cartridges.
- For use in Hollow Wall, Brickwork and Masonry.



Approvals



INSTYTUT
TECHNIKI
BUDOWLANEJ
Aprobacje
Technicznej ITB

Ordering Information

15pcs per Carton 300ml
+ 1 mixer per cartridge.

12pcs per Carton 410ml
+1 mixer per cartridge.

Part BU - XP300 - 300ml
Part BU - XP410 - 410ml

12 Months Shelf Life

Typical Gel and Curing Time

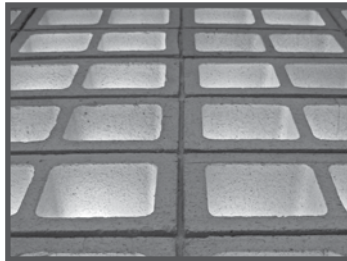
*Resin Temperature must be at least 20°C

BASE MATERIAL TEMPERATURE (°C)	25	15	5	-5	-10*
TYPICAL GEL TIME (mins)	5	9	20	40	50
MIN. LOAD TIME (mins)	30	60	90	180	240

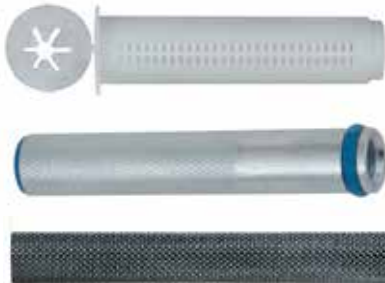
Number of Fixing Holes per Cartridge

STUD DIAMETER (STANDARD EMBEDMENT)	M8	M10	M12	M16	M20
NUMBER OF HOLES PER 300ML CARTRIDGE	86	59	39	25	8
NUMBER OF HOLES PER 410ML CARTRIDGE	117	81	53	34	11

Main Application Types



- Hollow Wall with Perforated Sleeve
- Masonry Fixings
- Close to the edge fixings
- Medium Load Fixings
- Areas of low exposure



Also recommended for use with perforated nylon sleeves, metal internal threaded sockets and metal perforated

Ho
hollow

Std
load

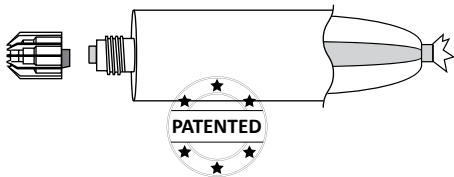


Chemical Anchor-

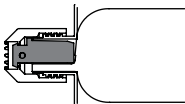
Manual Extrusion Tools



Cartridge Types



Cross Section of Cap Design



BUFFA Seal is an evolution of the Foil bag design. The "Self opening" cap making it safer to open, easier & faster to extrude. It uses less packaging than a conventional co-axial cartridge.



Chemical Anchor-

Mixer Nozzles & Extensions

Easy-Flow Nozzle



190mm and 135mm size with or without hanger



Nylon Extension Tube 250mm or 1000mm
For Deep Embedments

Asphalt Fixings



M12 x 70mm / M12 x 100mm

Hole Cleaning Accessories

Push Pumps



190mm / 280mm / 400mm

Steel Hole Cleaning Brushes



10mm / 13mm / 18mm / 28mm

Hollow Wall Accessories

Nylon Perforated Sleeves



12/50 - 20/85 - 16/85 - 16/135



Internal Threaded Sockets



Chemical Anchor Studs

Steel Studs Zinc, Galvanised or Stainless Steel



M8 x 110 / M10 x 130 / M12 x 160 / M16 x 190
M20 x 260 / M24 x 300

M30 by special order.

Non-standard lengths available by special order .



Order now, wherever you are



0800 594 44 44 • sales@fixfirm.com • www.fixfirm.com

Head Office & NDC: Pyke Road, Lincoln LN6 3QS