

THE FENDER BCS GROUP OF COMPANIES

www.fenderbcs.co.uk

Supa-Fix S

HIGH STRENGTH POLYESTER GROUT FOR ANCHORING & FIXING

PRODUCT FEATURES

Supa-Fix S is a high strength, fast curing polyester resin anchoring grout.

The material consists of a filled polyester resin blend and an organic peroxide catalyst.

Supa-Fix S contains blended fine aggregates and is suitable for use where the hole diameter exceeds the bar diameter by between 4mm and 25mm.

Supa-Fix S can be used for the permanent installation of reinforcement doweling and starter bars, handrails, safety fences, wall ties, railway tracks and ground anchors. The product can be used for fixing into concrete, concrete block, brickwork, aerated block and stone.

The product will cure under damp conditions and is resistant to immersion underwater. The cured material also has excellent adhesion, good chemical resistance and negligible shrinkage.

MATERIALS SUPPLIED

1, 2.5 and 10 litre pack size

STORAGE

Protect from frost and away from direct sunlight. Store under dry cool warehouse conditions at a temperature between 10°C and 25°C.

SHELF LIFE

18 months in unopened containers and stored under good conditions.

PREPARATION

Holes should be drilled using rotary percussive drilling techniques. If diamond drilling is used, holes should be scabbled or under-reamed. If these precautions are not taken the smooth finish obtained from diamond drilling can lead to reduced pull-out strengths. Pre-cast holes should be of dovetail configuration and have roughened sides.

After drilling, holes should be brushed and blown out twice, to remove all drilling debris. Bars and bolts should be degreased and any mill scale or rust removed.

MIXING

Supa-Fix S comprises two components, a resin BASE and a catalyst FILLER which are supplied pre-weighed in the correct proportions.

When required for application, the two components should be mixed well, preferably using a mechanical stirrer until a uniform consistency is obtained.

TECHNICAL INFORMATION

Colour	Light Grey
Density gm/cc	1.9
Pot Life	@ 10 °C @ 20 °C 45 mins 20 mins
Compressive Strength @ 20 °C (N/mm ²) (BS6319 Part 2:1983)	1 Hour 3 Hours 24 Hours 65 85 114
Tensile Strength @ 20 °C (N/mm ²) (BS6319 Part 7:1985)	7 Days 18
Flexural Strength @ 20 °C (N/mm ²) (BS6319 Part 3:1990)	27.4
Application Temperature Range (°C)	0 to 30

Typical Tensile Pull-out Strengths to (BS5080 Part 1: 1974)

Stud Size (mm)	Hole Diameter (mm)	Typical Embedment Depth (mm)	Tensile Failure Load (kN)	Shear Failure Load (kN)
10	14	75	31.9	23
12	16	100	52.8	31
16	20	125	83.7	63.1
20	25	150	117.6	85.4

APPLICATION

The mixed grout should be poured or pumped steadily into the prepared holes well within the gel time. It should be injected to the bottom of the hole to avoid air entrapment. The bar or bolt should then be inserted into the hole to the required depth using a twisting motion. This will assist in ensuring a complete bond.

The assembled bar should be left undisturbed while the grout hardens.

Our expertise is fitting all the pieces together

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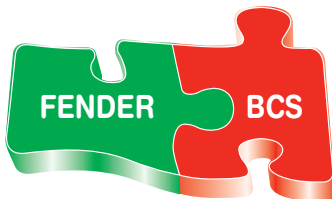
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Approximate Volume of Supa-Fix S required (ml) per 100mm of bond length (No allowance made for wastage)

Hole Diameter (mm)	Bolt Diameter					
	12	16	20	25	32	38
20	20					
25	38	29	18			
32	70	60	49	31		
38		94	82	64	33	
45			128	110	79	63
51				155	123	91

CLEANING

Clean uncured material with QUICKMAST SOLVENT. Cured material can only be removed mechanically.

HEALTH AND SAFETY

Consult the appropriate Material Safety Data Sheet prior to using Supa-Fix S.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

GENERAL INFORMATION

The strength of the cured Supa-Fix S permits the assembly of anchors capable of high loadings. The ultimate load will be governed by:-

- Strength of substrate
- Length of resin bond to bar
- Type and dimensions of bar
- Anchor separation
- Hole Preparation

The specified pullout strengths and safe working loads were obtained on single fixings with spacing of at least twice the embedment depth. In situations with reduced spacing or where fixings are close to edges, appropriate reductions in the safe working load should be made.

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