

TECHNICAL DATA SHEET

SX CHEMICAL ANCHOR FIXING

SX Chemical Anchor Fixing is a rapid curing two part anchoring cartridge system based on an epoxy acrylate resin. Has excellent chemical resistance and is styrene free.

USES: SX Chemical Anchor Fixing is ideal for close-to-edge applications (unlike expansion anchors) as no stress is placed on the surrounding substrate. Versatile in use SX Chemical Anchor Fixing is suitable for fixing wall ties, starter bars, studs, bolts or large screws in a wide range of substrates including brickwork, concrete, masonry, stone and PFA blocks. Hollow base materials can be securely fastened into by using SX Chemical Anchor Fixing in conjunction with a sleeve or sieve.

COLOUR: Grey

PACKAGING: 150ml packed 1 x 10
410ml packed 1 x 12

PREPARATION

Drill hole to the correct diameter and depth (see chart for guide), ideally using a rotary percussion machine. If the holes are produced by diamond drilling the surfaces should be thoroughly roughened. Remove all dust and debris from the hole using a hand air pump and a stiff rotary brush, repeat this three times (blow, brush, blow x3). All bars should be clean and free from oil or grease and all flaking rust should be removed. Threaded rod or studs should be chisel-ended to prevent them being unscrewed from the cured resin.

APPLICATION

Attach the mixing nozzle to the cartridge (*screw down hand tight*). Place cartridge into the dispensing gun. Gradually pressurise the Cartridge by activating the hand trigger a few times until material passes through the mixing nozzle. Stop pressurising and allow the material to flow until an even colour is obtained (approximately 5-6 inches of extruded material should be adequate). Insert the nozzle into the base of the hole. Activate the trigger, withdraw the nozzle slowly as the hole fills. Fill the hole two thirds full. Insert the fixing slowly with a rotating action. Once all applications have been carried out, release the pressure by pressing the slide release arm on the back of the trigger stop and pulling back the slide rail. NB Once material has started to extrude through the nozzle over pressurising the system will not increase flow rate, and can cause leakage from the rear of the cartridge.

SX CHEMICAL ANCHOR FIXING TECHNICAL DATA SHEET CONTINUED

FINISHING

Extrude any material to its cured state prior to disposal. It is the user's responsibility to dispose of all packaging correctly.

HEALTH & SAFETY

Contains Dibenzoyl Peroxide. May produce allergic reaction. Keep out of the reach of children. Avoid contact with skin. Wear suitable gloves. Dispose of empty packaging correctly.

LIMITATIONS

An adhesion test prior to application is recommended. It is the users responsibility to determine suitability.

MIXING RATIO - 10:1 by volume as supplied in cartridge.

GEL TIME AND CURING TIME**
hours.

**Figures are based on M12 fixings. Full cure is achieved after 24

| BASE MATERIAL TEMPERATURE (°C) | 35 | 25 | 15 | 5 | -5 | -10* |
|--------------------------------|----|----|----|----|----|------|
| TYPICAL GEL TIME (mins) | 3 | 6 | 8 | 18 | 50 | 60 |
| MIN. LOAD TIME (mins) | 20 | 20 | 20 | 30 | 90 | 180 |

*Resin temperature must be at least 20°C.

ULTIMATE PHYSICAL PROPERTIES

| | | |
|----------------------|------------|---------------------------|
| COMPRESSIVE STRENGTH | (ASTM 695) | 62.70 N/mm ² |
| TENSILE STRENGTH | (ASTM 638) | 12.85 N/mm ² |
| FLEXURAL STRENGTH | (ASTM 790) | 23.88 N/mm ² |
| ELASTIC MODULUS | | 6860.33 N/mm ² |
| FLEXURAL MODULUS | | 3250.33 N/mm ² |

| ANCHOR SIZE (mm) | HOLE DIAMETER (mm) | HOLE DEPTH (mm) | TENSION (KN) (Recommended Load) |
|---------------------|--------------------------|--------------------|------------------------------------|
| 8 | 10 | 80 | 9.1 |
| 10 | 12 | 90 | 11.4 |
| 12 | 14 | 110 | 14.5 |
| 16 | 18 | 125 | 20.3 |
| 20 | 24 | 170 | 27.8 |
| 24 | 28 | 210 | 36.0 |
| 30 | 35 | 280 | 50.9 |

Tension Figures quoted are tested in accordance with B.S. 5080 PART 1 in approximately 25 N/mm² concrete and 5.8 grade steel.

