

# SpiraGrout

## Information Sheet



### Key Benefits

- High performance.
- The low liquid to powder ratio provides a thixotropic grout.
- It is a true non-gaseous grout, free from bleeding and settlement.
- Good cohesive fluidity – excellent flow for easy application under pressure.
- Suitable for injecting by hand or power tool.
- High early strength - develops 30% compressive strength after 24 hours.
- Shrink compensated – maintains maximum contact with bearing surfaces.
- Free from Chlorides and Nitrates.
- Non-oxidising.
- Non-corrosive.
- Environmentally and user friendly.

### Description:

This high performance, 2-part, thixotropic, cement-based anchor grout has been specially developed to meet the rigors and requirements of the modern building industry.

Each tub contains both powder component and liquid components. The powder part is based on a high quality graded silica sands, refined cement, shrinkage compensation compounds and a synergistic blend of admixtures. The liquid is based on a styrene butadiene co-polymer which adds considerably to the grouts properties and adhesive qualities.

The products are packaged in the correct 'ready to mix' ratios and will create a pumpable grout. The products must be mixed in accordance with the instructions. NO PART MIXING.

The grout is typically pumped into place using a mortar cartridge gun ([SkilledBuild Cox Grout Gun](#)). Each filling of the gun must be used within 5 minutes to avoid thickening. The product in the pail should be mixed each time a gun filling is carried out. The injected grout will not shrink in anchor holes and quickly develops considerable compressive strength.

SpiraGrout is primarily used for bonding metal components into masonry substrates, for instance [SpiraCoil crack-stitching bars](#), ties and may also be used to anchor bolts and bars. Other uses include an adhesive for fixing brick slips to walls, masonry bonding, bedding bearing plates, grouting and packing. It is suitable for all normal masonry use and has high early strength, developing 30% compressive strength after just 24 hours. It is also a true non-gaseous grout, free of bleeding and settlement, as well as being environmentally and user friendly.

### Directions for use:

#### Preparation

- Proposed substrates must be sound.
- Drill holes, cut chases etc.
- Substrate surfaces to be bonded must be cleaned free from oils, organic growth, dust and debris, through wetted and in a moist condition, free from surface water.

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### Typical Strength Properties @ 20°C Compressive Strength

1 Day	7 Days	14 Days
20N/mm	50N/mm	60N/mm

#### Areas of Use

- For bonding metal components into masonry substrates.
- Masonry bonding, bedding bearing plates, grouting and packing.
- Ties into brick arches.
- Overhead rail tracks.
- Starter bars and dowels.
- Wall ties.
- Anchor slots.
- It is suitable for fixings into most construction materials, including concrete, rock, brickwork, masonry, blockwork or other substrates capable of carrying the design load.

#### Product Data

**Shelf Life:** Typically 12 months when kept in optimum conditions in an unopened container. Storage at higher temperatures and high humidity will reduce the shelf life.

**Storage:** Store in dry conditions free from moisture, within a 5 °C to 35 °C temperature range. Do not allow to freeze.

#### Limitations

Under no circumstances should the grout be used where freezing may occur, or applied into dry or water logged holes or chases. In these situations the grout performance may be impaired.

- If fluted drills are used, the holes should be cleaned by wire brushes ([SkilledBuild Wire Hole Cleaning Brushes](#)) and blown out with clean compressed air ([SkilledBuild Dust-Away Blow Out Pump](#)). The airline should be extended to the bottom of the hole to ensure complete removal of drilling debris and dust. Prior to application the drilled holes should be dampened with water and any excess water blown out.
- In hot conditions and porous substrates, ensure the masonry is well wetted before and after.
- Where wetting is ineffective or inappropriate, internally prime to prevent premature curing of the SPIRAGROUT.

#### Mixing

- SPIRAGROUT is supplied in pails in a two part ready to mix pack.
- Use the pail provided to mix the grout. You will need a low speed drill with attached mixing paddle and a bucket of clean water, (for cleaning purposes). Only mix the grout when substrates have been prepared.
- Empty the liquid into the pail provided.
- Pour the powder slowly into the pail. Continue to mix with the paddle for a full 2 minutes, ensuring that the powder is completely blended.
- No additional water or powder should be added.
- Once mixed, the grout is ready to be used and has the usability time of about 45 minutes. Cover pail from direct sunlight.
- SPIRAGROUT can be re-agitated by re-mixing the remaining contents in the pail to achieve a similar consistency.

#### Placement

- Load the mixed grout into the cylinder of the mortar injection gun using a trowel or similar. Use an extension tube for the cartridge to allow filling of the hole from the bottom to the mouth. Immediately after placing the injection grout insert the bolt, bar, wall tie, slotting or other fixing.
- Gently agitate the inserted fixing to ensure complete contact by the anchor grout. Once placed do not disturb before the anchor grout has hardened.
- Each pumpable mortar gun filling should be used within 5 minutes. The total working life of the mix will be approximately 60 minutes. Prior to each cartridge loading the material in the pail should be re-mixed to maintain grout workability.
- For best tensile anchorage results a minimum embedment depth of 100mm is recommended. Hole diameters may be varied but a minimum of 2mm all round clearance should be used.
- This clearance may be increased for ease of placing fixings into deep holes.

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## Important Information

SkilledBuild is committed to development and supply of quality products and may substitute or change product branding or specification or technical data without notice. Always check for latest information.

All information provided is based on practical tests & published data and is intended to guide a competent DIY user or contractor in the typical use of products for minor works but is without guarantee. If a failure of the works will be costly to repair or hazardous then design & execution must be undertaken by competent persons. Further advice should be sought from a suitably qualified advisor. Skilled Build may be able to answer simple product enquiries.

Since application and working and user competence is beyond our control, no liability of the supplier can be derived from the contents of information sheets or other general information provided. Any statements made beyond the contents of SkilledBuild's website or product labels must be confirmed in writing by the supplier.

## Parameters controlling Uniaxial Pull Out Load

- Type and strength of base material.
- Length of anchor bond.
- Hole forming or drilling method.
- Type of fixing or drilling method.

## Safety Factors:

- Non critical applications: 1.5 minimum
- Critical applications: 2.0 minimum
- Compliance with relevant codes of practice and standards.

All equipment should be cleaned immediately after use. Clean using cold water or dilute detergent, otherwise use cleaning agents approved for cementitious mortars.

## Curing

- During high temperatures and/or ambient conditions, placed product should not be allowed to dry out for the first three days after placement.
- Exposed areas of placed product should be cured in accordance with good concrete practice including polythene sheeting or spray applied curing membrane.

## Safety:

- This is alkaline when mixed and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves.
- If skin contact occurs wash thoroughly with clean water.
- Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice.
- SPIRAGRROUT is non-hazardous, but work cleanly and adhere to the PPE regulations.
- Remove grout splashes from skin with soap and water and in cases of eye contact wash with cold clean water for 10-15 minutes.
- Seek medical advice if irritation persists.