

A high-strength, free-flowing epoxy grout

Product Description

GripEpoxy 299 is a solvent free epoxy grout with very high compressive, flexural and adhesion strength.

Characteristics/Advantages

- Superb flow characteristics
- Fast strength gain
- Very high tensile and adhesion characteristics
- Excellent adhesion to concrete & steel surfaces
- Good fatigue resistance properties
- No shrinkage

Typical Applications

Any applications where a very high-strength non-shrink grout is required:

- Industrial equipment that is subject to high dynamic loads
- Anchor grouting for filling cavities or securing rebar
- Chemical resistant grout applications
- Base plate support

Typical Properties

Compressive strength (BLS 1449)	24 Hours @25°C	3 Days @25°C	7 Days @25°C	28 Days @25°C
		70MPa	≤72MPa	≤75MPa
Flexural strength (BLS 1449)	≤28MPa	≤33MPa	≤35MPa	≤35MPa
Adhesion testing (Elcometer 106 pull tester)			Minimum required ≤1.5MPa	GripEpoxy 299 ≤2.5MPa
Fixing Anchor test (Hilti tester 4)			Minimum required 6kN	GripEpoxy 299 Max ≤11.5.kN
Gel Time	32 minutes			
Specific Gravity	1.74			
20kg kit yield	11.5L			

Chemical Resistance Chart

REAGENT	IMMERSION TIME (days)	RESULTS WEIGHT GAIN (%)
Toluene	1	0.0
	3	0.1
	7	0.3
	28	1.8
Ethanol	1	1.7
	3	3.0
	7	4.4
	28	8.5
10% HAc Acetic acid	1	5.6
	3	9.7
	7	14.1
	28	25.1
70% H ₂ SO ₄ Sulphuric acid	1	0.2
	3	0.4
	7	0.7
	28	2.4
50% NaOH	1	0.0
	3	0.0
	7	0.0
	28	0.0

Placement Guide

1. Prepare the surfaces prior to application by removing all loose material, water, rust and any oil based products.
2. The product consists of three parts; **(PART A – Resin, PART B – Activator, PART C - Filler)**
3. Using a small trowel, mix the entire contents of parts A + B. (Do not part mix) mix the combined product thoroughly for at least 3-5 minutes.
4. Slowly add Part C – Filler. Blend into the mixed part A&B, whilst mechanically mixing the product together. Mix for at least 3 minutes to ensure thorough mixing.
5. Apply the **GripEpoxy 299** by pouring the material into the area to be grouted and cure for up to 48 hours before subjecting to high stress.
6. Clean equipment and brushes with an epoxy cleaner

GripEpoxy 299



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Packaging

3 part 20kg kits in 20L containers.

Shelf life

One year in original unopened containers.

Storage

Store in a cool, dry place

Limitations

Mixing should not take place in temperatures below 5°C.

Safety precautions

Avoid contact with eyes and skin. In case of contact with eyes, immediately flush eyes with water and call a physician. Wash hands after contact. Always wear a dust mask when handling, mixing and applying products. Also refer to Material Safety Data Sheet.

Health and Safety

Refer to **GripEpoxy 299** MSDS sheet

Quality Assurance

Stanton Construction Chemicals CC production and testing programmes comply with local testing standards

Rev 3 – 18/10/17

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