



Technical Data Sheet

Description

Tek-Grout LE is a three component solvent-free multi-purpose epoxy grout. Specially designed for a variety of grouting and anchoring applications where high dynamic loads are anticipated and high early and ultimate strength is required.

Advantages

- High early strength
- Non-shrink
- High flow
- Resistant to vibrations
- Waterproof
- Resistant to wide range of chemicals

Uses

- Base plates
- Anchor bolts
- Crane rails
- Machine grouting

Physical Properties*

Property	Typical Results
Compressive strength	70 MPa @ 1 day
	>90 MPa @ 7 day
Flexural strength	30 MPa @ 7 days
Effective bearing area	95% minimum
Peak exotherm, 200 grams mass	50°C
*The above properties are average laboratory values	

Packing

Tek-Grout LE is available in 32 kg packs, Approximately 16 lt. yield per pack.

Shelf Life

12 months when stored in factory unopened packs, stored in a cool dry and elevated place away from direct sunlight.

Application properties

Pot life	at 25°C 40 minutes
	at 35°C 25 minutes
Full cure	7 days

Flow properties

Temperature	10°C	20°C	30°C
Maximum flow	0.8 m	2.0 m	3.0 m
The above flow rates were determined at a gap depth of 30mm at a head of 300mm.			

Gap depth when used under base plates	
12mm minimum	150mm maximum

Installation Guidelines

Spraytek provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting the work. The information below is a summary intended for guidance only.

Preparation

All substrates must be structurally sound, loose or unsound substrate should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. New concrete surfaces should be fully cured with a maximum residual relative humidity (RH) of 75%.

For effective grouting under base plates, erect a watertight formwork, tight to the longest sides of the plate to be grouted, ensuring the height of the formwork extends above the height of the base plate.

At one of the short ends of the plate, erect a hopper at least 50 mm away from the plate, with sufficient volume to create a minimum height of 200 mm above the level of the base plate.

This will ensure the material flows in a continuous pour under the plate without potential air voids.

At the opposite short end to the hopper erect a similar formwork to the long sides but leaving a gap not exceeding 25 mm from the plate to minimise the unrestrained area of grout as it exits from under the plate.

Pile head treatment

To waterproof pile heads, prepare the pile back to sound concrete ensuring no feather edges and a good mechanical 'key' for the subsequent grouting or re-profile the pile heads using a cementitious **Tek-Crete CPC** (refer separate data sheet), prior to the application of **Tek-Grout LE**.

Priming

Priming is not normally required, however ensure the substrates must be structurally sound, loose or unsound substrate should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits.

Mixing

Tek-Grout LE is supplied as a three component product, consist of Part A, Part B and Part C. Pour the base component (Part B) into suitable clean mixing container, and while stirring slowly add the hardener (Part A) and mix for 2 minutes. Once the Part A and Part B have been mixed, add the filler and mix for further 3 minutes. A mechanical mixer such as low speed drill (300-500 rpm) with mixing paddle is recommended. For large quantity mixing, a forced action mixer should be used.

Application

Pour the mixed product into the hopper formwork allowing it to flow under the base plate. Keep pouring the product as required to ensure a continuous flow in a single operation, stopping after the material exits the formwork at the opposite end of the plate and rises to the desired finished level.

After the grout has achieved initial set, remove the hopper and formwork and trim the grout to finish as required.

For pile head treatment, pour the mixed product into the formwork allowing it to flow around and top of the pile. Keep pouring as required to ensure a continuous flow in a single operation, stopping after the material has completely filled the form work to a minimum thickness of 20mm above the highest level of the pile concrete surface.

The application should be carried-out in a continuous operation without breaks, therefore kindly ensure sufficient materials, equipment and labour are available at the time of application.

Curing

Allow **Tek-Grout LE** to fully cure for 4 to 7 days before exposing to full mechanical, chemical or environmental conditions.

Precautions

Do not part mix or re-temper the mix.

Ensure the product should not be exposed to extreme temperatures or direct sunlight.

During hot weather condition, store un-mixed materials in an air-conditioned environment.

Avoid exposure of un-mixed or mixed materials to direct sun light or heat.

Keep equipment that will be in contact with the product cool and away from direct sun light.

Avoid application during the hottest time of the day.

Do not apply in rain or wet conditions or at temperature below 5°C.

Do not expose to running water or dampness or humid atmosphere.

The product should not be thinned with any type of thinner or solvent under any circumstances.

Technical Support

Spraytek offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales consultations.

Health & Safety

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions.

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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