



## Technical Data Sheet

### Description

**Tek-Grout NSG** is a pre-mixed cementitious non-shrink grout with special cement, sand and expansion agents providing a smooth pouring or trowellable grade consistency that completely fills the void between base plates and foundations, for gap widths of in a single layer of grout.

### Advantages

- Premixed ready to use
- High flow
- High early strength
- Chloride free

### Uses

- Base plates
- Anchor bolts
- Crane rails
- Bridge bearings
- Columns
- Pre-cast elements

### Physical Properties\*

Property	Typical Results
Compressive strength	>65 MPa
Flexural strength	>9 MPa
Appearance	Grey powder
*The above properties are average laboratory values	

### Packing

**Tek-Grout NSG** is available in 25 kg bags.

### Shelf Life

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

### Theoretical Coverage/yield

Approximately 12.0 to 13.5 liters when mixed with 3.8 to 4.5 liters of clean water for 25 kg bag.

### Flow rate

Gap depth	100mm head	250mm head
10 mm	1.0 m	2.50 m
20 mm	2.0 m	3.0 m
30 mm	2.5 m	3.0 m
40 mm	3.0 m	3.0 m

### 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.

For effective grouting under base plates, erect a watertight formwork with drainage points, 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.

Tie bolthole ends and pre-cast elements should be prepared back to sound concrete ensuring no feather edges and a good mechanical key for the **Tek-Grout NSG**.

## Priming

The substrate must be primed using clean water and not allowed to dry out, prior to application.

## Mixing

**Tek-Grout NSG** is supplied as a single component cementitious product. Pour 3.8 to 4.5 liter of clean water into suitable clean container and slowly add the product while mixing with low speed drill (300-500 rpm) with mixing paddle. Mix approximately for 3-5 minutes to achieve homogenous consistency.

## 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.

Alternatively, apply the mixed product to the prepared surface using a steel trowel or wood float, compacting to fill the void completely to a minimum thickness of 10 mm.

## Curing

Apply one coat of **Tek-Cure WB** or **Tek-Cure AR** to the exposed grout areas after removal of any formwork and initial hardening of the product.

## Precautions

Do not add additional water or re-temper the mix.

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

During hot weather condition, use ice cold water for mixing.

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.

## 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.

Reference #	TDS / STC /TGNSG
Issue Date:	06/2012
Revision #	1

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## Spraytek Coatings LLC

P.O. Box 27356, Dubai, U.A.E., Tel.: +9714 2221432, Fax: +9714 2275750, Email: info@spraytek.ae

[www.spraytek-me.com](http://www.spraytek-me.com)