

# SpEC Tuf-Tile

(Previously known as SpEC Tuf-Tile Germproof Grout)

GERMPROOF AND CHEMICAL RESISTANT EPOXY ADHESIVE AND GROUT FOR FLOOR AND WALL TILES

## DESCRIPTION

**SpEC Tuf-Tile** is a three-component epoxy adhesive and grout for floor and wall tiles based on a solvent-free epoxy system incorporating graded inert fillers, to provide maximum workability, adhesion and chemical resistance. It is available in standard off-white, but can be supplied in other colours on order.

**SpEC Tuf-Tile** provides a permanent finishing to floor and wall tiles where a germproof, chemical resistant and waterproof seal is required. **SpEC Tuf-Tile** is designed as an impervious, high-strength adhesive and grouting compound offering a simple and easy application with good chemical resistance. It is recommended for floor and wall tiling where hygiene is of prime importance, particularly in food processing, swimming baths and hospital applications.

## TYPICAL USES

**SpEC Tuf-Tile** is intended for use in hygienic areas such as hospitals, kitchens and food preparation areas. It should be used where traditional cement-based formulations have consistently failed under attack from aggressive water, e.g. in swimming and leisure pool situations.

## ADVANTAGES

- Excellent adhesion
- Hygienic in service - will not support bacterial growth
- Excellent handling characteristics ensuring easy application
- Good chemical resistance
- Available in standard and custom colours.

## RELEVANT STANDARDS

**SpEC Tuf-Tile** conforms to the following international standard:

**ANSI A 118.3**

## TECHNICAL DATA

<b>Density</b>	1.79 kg/Lit
<b>Pot Life at 25 °C</b>	30 min
<b>Compressive Strength</b>	62.4 N/mm <sup>2</sup>
<b>Tensile Strength</b>	12.9 N/mm <sup>2</sup>
<b>Flexural Strength</b>	29.3 N/mm <sup>2</sup>
<b>Bond Strength (wire cut bricks)</b>	4.6 N/mm <sup>2</sup>
<b>Water Absorption</b>	0.18%
<b>Thermal Shock resistance</b>	9.2 N/mm <sup>2</sup>
<b>Water Cleanability (@ 80 min)</b>	Pass
<b>Initial Service Strength (in hrs)</b>	13.30
<b>Shrinkage</b>	0.028%
<b>Vertical Joint Sag</b>	Pass

## CHEMICAL RESISTANCE

Dilute acids	Good
Alkalis	Good
Salts	Good
Oil	Good
Fats	Good
Solvents	Limited

## APPLICATION

### Surface Preparation

Surfaces to which the grout is to be applied should be clean and free from dust, grease and other contaminants.

### Mixing

Mix **SpEC Tuf-Tile** by adding all the hardener to the base and stirring thoroughly. Then add the filler slowly stirring all the time until a smooth and uniform paste is obtained.

Once mixed, **SpEC Tuf-Tile** should be spread thinly on polyethylene sheeting to prevent exothermic exchange and extend pot life.

## Application

**As Adhesive:** Apply a thin layer of 3-4mm thickness and spread evenly with a notched trowel. Install the tiles immediately, pressing firmly onto the adhesive. Any adjustments need to be made within a few minutes; do not move the tiles once the adhesive sets. For best results work on an area of 0.5 – 1 square meter at a time, depending on the tile size.

**As Grout:** Apply to tile joints with a plastic spatula, working on no more than 0.5 square meter at a time. Clean the area immediately after application as hardened material can only be removed mechanically and will damage the tiles.

## EQUIPMENT CLEANING

Tools may be cleaned using **SpECTop Cleaning Fluid** whilst the product is in its uncured state. Once hardened, the product can only be removed by mechanical means.

## APPLICATION TEMPERATURE RANGE

**Minimum** +5 °C  
**Maximum** +35 °C

## PACKAGING AND YIELD

**SpEC Tuf-Tile** is supplied in 1kg and 2.5kg units consisting of pre-weighed base resin, reactor and filler.

Yield:

1 Kg pack: 0.56 Lit

2.5 Kg pack: 1.40 Lit

Actual usage rate depends on tile and joint size.

## STORAGE AND SHELF LIFE

**SpEC Tuf-Tile** has a shelf life in excess of 12 months when stored in original containers and kept in a cool and dry environment. At temperatures above 35 °C, the shelf life will be reduced.

## HEALTH AND SAFETY

It is recommended that the user adheres strictly to the “General Instructions on the Use of Epoxy-based Products” and the “Code of Practice for Handling Epoxy Products”. Also refer to the “Health and Safety” instructions.

## FLAMMABILITY

**SpEC Tuf-Tile** is non-flammable.

## FLASHPOINT

**SpECTop Cleaning Fluid** 34 °C

## Other SpECTite Tile Products:

- **SpEC Rainbow Grout** - Cementitious Tile Grout (Standard and Wide Joint Grades)
- **SpEC Rainbow Grout LM** - Polymer-Modified Cementitious Tile Grout (Standard and Wide Joint Grades)
- **SpECTite ETA** - Chemical Resistant Epoxy Tile Adhesive and Grout
- **SpEC Latex WTA** - Cementitious Polymer-Modified Waterproof Tiles Adhesive.

Issue 1: 11/2011

Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in any connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

## SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696

E-mail: info@spec.ae

www.spec.ws

Distributed by: **EMIRATES SPECIALITIES CO., L.L.C.**

P.O. Box 3880, Dubai, United Arab Emirates.

Al-Quoz Distribution Centre.

Tel: +971 4 3470767, Fax: +971 4 3470765

E-mail: dubai@esco.ae

P.O. Box 46564, Abu Dhabi, United Arab Emirates.

Tel: +971 2 6784800, Fax: +971 2 6778366

Email: abudhabi@esco.ae

P.O. Box 6156, Sharjah, United Arab Emirates

Tel: +971 6 5420220, Fax: +971 6 5421211

E-mail: sharjah@esco.ae

“Printed on Recycled Paper”