

### **PRODUCT DESCRIPTION**

**TPA Screed** is a pre-blended screed mixture for the installation of cementitious screeds and tile beds.

**TPA Screed** is a grey powder, consisting of specially graded sand, cement and additives, specifically formulated to create an easy to use and apply cementitious screed suitable for the installation of tiles, vinyl and carpet.

**TPA Screed** is suitable for internal and external floor applications, including internal wet areas, balconies, terraces, and decks in both bonded and un-bonded screed applications.

### **ADVANTAGES**

- Premixed, single component system, just add clean water on site.
- Quick and easy to apply – provides a simple solution to the installer.
- Available in 20kg bags allowing ease of transport to site.
- Eliminates the need to carry separate sand and cement.
- Suitable for thin and thick bed applications.

### **RECOMMENDATIONS**

Special notes for use over the following:

- On wooden, rubber, or metal substrates, **TPA Screed** should be applied as an unbonded screed, with a minimum bed thickness of 40mm and it must be reinforced with an appropriate wire mesh.

### **DIRECTIONS FOR USE**

Read and understand the Safety Data Sheet before using this product.

### **SURFACE PREPARATION**

All substrates must be structurally sound, clean, dry, free of dust, dirt, wax, curing compound, paint, adhesive, latex, gypsum, grease, oil, loose particles, and any other contamination that may act as bond breaker. Concrete must be free from laitance, efflorescence and not be subject to hydrostatic pressure.

Moisture levels in the background substrate are important within the framework of the total flooring system being installed. In the information below, detailed data is supplied in relation to moisture levels in the **TPA Screed**, prior to installation of the different floor coverings over it.

Concrete substrates must be sufficiently cured for a minimum of 28 days, or such that when tested in accordance with test method A3.1.2 "Relative humidity in situ probe test" per ASTM F2170 in AS1884:2021 shall exhibit a relative humidity not exceeding 75%.

Cementitious substrates, such as concrete, must not be subject to shrinkage after the installation of **TPA Screed**.

Ensure fibre cement sheeting including lightweight structural flooring has been correctly installed according to relevant standards and manufacturer's recommendations.

### **MIXING**

#### **Machine Mixing:**

Place the **TPA Screed** into the mixer, then add 2 litres of clean water per 20kg bag of **TPA Screed**. Mix thoroughly for 3-5 minutes.

#### **Drill Mixing:**

Place 2 litres of clean water into a clean container and slowly add 20kg of **TPA Screed** while slowly mixing with a low-speed mixer. Mix thoroughly to a smooth, homogeneous consistency.

#### **Hand Mixing:**

Place the **TPA Screed** into a wheelbarrow or onto a clean solid surface, then add 2 litres of clean water per 20kg bag of **TPA Screed**. Mix with a shovel until a uniform consistency is achieved.

#### **Applying the Screed:**

Place the mixed product onto the area to be screeded and screed to the desired thickness and plane using an appropriate straight-edge.

Apply the desired surface finish using a wooden or polyurethane float.

#### **Bonded Screeds:**

Apply an appropriate TPA tile adhesive with a suitable 6mm notched trowel on to the substrate. Place the mixed **TPA Screed** onto the bond coat of TPA tile adhesive while it is still wet. Apply the finish as described previously. (It is imperative that bonded screeds are installed wet on wet).

**Note:** **TPA Screed** should be carefully applied at a minimum thickness of between 5-120mm.

#### **Un-bonded Screeds:**

Apply the mixed **TPA Screed** onto a polyethylene film, waterproofing membrane, etc. and finish as described previously. The minimum bed thickness should be 30-120mm.

Discard any material that has exceeded the pot life or working time.

### **MOVEMENT JOINTS**

It is essential that movement joints are carried through from the background substrate, right through to the face of the tile covering. Refer to AS 3958.1 - 2007 for guidance on design and construction of movement joints.

### **INSTALLING TILES, VINYL AND CARPET**

Ceramic Tiles may be installed generally with an appropriate TPA Tile Adhesive when **TPA Screed** has fully cured, (Usually after 7 days).

In determining when laid **TPA Screed** is suitable for the installation of different flooring materials, the following guidance is presented based on Australian Standards.

**AS 3740-2021** Waterproofing of domestic wet areas.

**AS 3958.1 : 2007** Ceramic Tiles Part1-Guide to the Installation of Ceramic Tiles.

**AS 1884:2012** Floor Coverings Resilient Sheet and Tile – Installation Practices (Covers products like lino, vinyl).

**AS 2455.1:2007** Textile Floor Coverings – Installation and Practice (Covers products like carpets).

### **PERFORMANCE DATA AND CHARACTERISTICS**

- Appearance ..... Grey Powder
- Water Ratio ..... 1.8-2.1liters per 20kg
- Bulk Density ..... 1900kg/m<sup>3</sup>
- Pot Life ..... approx. 2hrs
- Setting Time ..... approx. 2-4hrs
- Dry Time ..... 24 hours

### **Compressive Strength:**

- 24 hours ..... 12MPa
- 7 days ..... 26MPa
- 28 days ..... 29MPa

### **PACKAGING**

TPA Screed is available in 20kg bags.

### **CONSUMPTION**

Approximately 2kg per M<sup>2</sup> per mm of screed thickness.

One 20kg of **TPA Screed** will cover approximately 1M<sup>2</sup> at a thickness of 10mm. Actual surface texture may affect the consumption.

### **IMPORTANT NOTES**

- Always read the entire Product Technical Data sheet and Safety Data Sheet (SDS) before using.
- Contact the Bayset Technical Department for advice before work starts if substrates are unusual or non-traditional or if there is any uncertainty regarding suitability or preparation.

### **STORAGE AND SHELF LIFE**

Stored in original, unopened packaging, in cool, dry conditions, **TPA Screed** will keep for 6-12 months. Storing in areas of high humidity or excess moisture may affect the contents and shorten shelf-life.

### **CLEANING**

Clean all tools and equipment with water before the screed dries. When hardened the product may require mechanical or chemical removal. Chemical removal is best done using a proprietary concrete cleaner (usually acid based) – follow safety instructions for the product.

### **PRECAUTIONS**

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using TPA products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.tpa-us.com.au](http://www.tpa-us.com.au) for copies.

**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**

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### **WARRANTY CONDITIONS**

Bayset Pty Ltd trading as Tiling Products Australia (Bayset) offers a limited warranty in respect of this product, subject to certain terms and conditions set out in the warranty documentation which has been made available at [www.bayset.com.au](http://www.bayset.com.au). Please contact Bayset directly to obtain a copy of the warranty documentation relevant to this product.

### **DISCLAIMER**

The technical information and application advice given in this Technical Data Sheet is based on the present state of Bayset Pty Ltd's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations. The user is responsible for checking the suitability of products for their intended use.

### **\*NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by Tiling Products Australia either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Tiling Products Australia, are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
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For latest revision, check our website at [www.tpa-us.com.au](http://www.tpa-us.com.au)

This is a CONTROLLED document under TPA's Quality System.