

## Technical Data Sheet ISSUED APRIL 2018

P. 1 - 3

### PRODUCT DESCRIPTION

**TPA 301R** is a cost effective, flexible, powdered adhesive for wall and floor applications. Suitable to use over concrete, cement render, screeds, fibrous cement sheeting, plasterboard and suitable **WPA** waterproofing membranes†. It is suitable for internal and external\* applications including bathrooms, toilets, laundries, kitchens, decks and verandas. **TPA 301R** is suitable for most types of moisture stable tiles in domestic and general tiling applications.

### ADVANTAGES

- Suitable for a wide range of tiles
- Cost effective
- Excellent trowel-ability and grab
- Flexible

### USES

All moisture stable tile types. Suitable tiles include porcelain, ceramic, terracotta, terrazzo, glass and stone.

- General tiling
- Internal and External\*
- Concrete
- Render and screeds
- Fibre Cement
- Plasterboard
- WPA waterproofing membranes\*
- Wall and Floor

### DIRECTIONS FOR USE

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

### SURFACE PREPARATION

Make sure the substrate has been correctly installed according to relevant standards and manufacturer's recommendations.

Allow for minimum curing time for screeds (7 days) and concrete (28 days).

Remove all materials that will interfere with bond. These include oils, grease, wax, release agents, curing compounds dust and any loose material.

Ensure surface is sound. All weak or friable material must be removed.

Check the porosity of the cleaned surface by applying a small amount of water. It will be easily absorbed if porous and bead on the surface if not. Porous substrates should be primed with **WPA 360**.

Most non-porous surfaces may be primed with **WPA 160** Non-Porous Primer.

Contact the Bayset Technical Department before commencing tiling if there is any doubt about required or suitable preparation.

### MIXING

20kg powder mixes into 5.5 - 6 litres of water

1. Add water to bucket.
2. Mix powder into water with mechanical stirring.
3. Mix until smooth.
4. Allow to stand for 2 minutes and mix again before using.

**Note:** The paste can "wet out" during mixing so make sure that it is mixed sufficiently before adding more liquid. Do not add more liquid after the initial mixing. Discard when the product stiffens in the bucket. Use a drill with suitable mixing paddle designed for the task and do not mix by hand.

### APPLICATION

Apply to the prepared substrate using a notched trowel. Use a 6mm notch for tiles up to 150 x150mm, a 10mm notch for up to 250x250mm and a 12mm notch for 300x300mm tiles. Tiles 400x400mm and larger should be back-buttered in addition to using a 12mm notched trowel.

Press tiles firmly into adhesive before it skins.

Apply only up to 1m<sup>2</sup> at a time to avoid skinning. If skinned, re-spread to expose "wet" adhesive. Discard any material that has hardened before use. Adhesive contact coverage should be in accordance with AS 3958.1.

Allow adhesive to set adequately before grouting.

### POT LIFE

3 hours at 22°C and 50% Relative humidity.

### COVERAGE

On site coverage will vary widely as it is dependent on a large number of variables. These include but are not limited to: application technique, substrate texture, wastage, trowel angle, trowel wear, contact coverage and flatness. As such the following coverage is intended as a guide only. It is advised that comparisons between products are based on the mixed volume.

When mixed bag yields approximately 17-18 litres

Approximate Coverage (10mm trowel)

Kg per m<sup>2</sup> - 2.8 Kg

M<sup>2</sup> per bag - 7.0 M<sup>2</sup>

## Technical Data Sheet ISSUED APRIL 2018

P. 2 - 3

### **GROUTING**

Use a suitable proprietary cementitious or epoxy grout after the tiles are firm. Modify grout with an appropriate admixture when tiling is over a flexible substrate or when improved water resistance is required.

### **CLEANING**

Remove using a wet cloth before the product hardens. If allowed to set it must be removed mechanically.

### **PERFORMANCE DATA AND CHARACTERISTICS**

- Appearance ..... Grey
- Packaging ..... 20kg Bag
- Mixed S.G. .... 1.45g/cc
- VOC ..... <1g/L
- Mixing Ratio ..... 5.5-6L / 20kg
- Pot Life ..... 3 hrs @ 22°C, 50% RH
- Open Time ..... >20 mins
- Set Time ..... <24 hrs @ 22°C, 50% RH
- ASISO 13007 ..... C1S1

### **IMPORTANT NOTES**

- Always read the entire Product Technical Data Sheet and Material Safety Data Sheet (MSDS) before using.
- Only tile surfaces that are suitable. If in doubt check with substrate manufacturer.
- When tiling directly onto waterproofing membranes check to ensure compatibility. If not already approved by Bayset in writing, additional compatibility tests may be required.
- If considering tiling over paint it must be well bonded, clean and sound. Abrade and clean enamel paints. Prime with **WPA 160** before tiling.
- Use only ambient conditions between 5 and 35°C. Do not use in windy or very low humidity conditions.
- This product is not suitable for use with moisture sensitive materials.
- Not suitable for continuous immersion (e.g. pools or water features).
- Not designed for direct bonding to plastic or metal. Special surface preparation may be required.
- When tiling walls do not exceed 2.7m and always check that it will support the intended weight.
- Do not use to tile directly onto timber, plywood, particleboard, MDF or Masonite.

- Contact the Bayset Technical Department for advice before work starts if substrates or tiles are unusual or non-traditional or if there is any uncertainty regarding suitability or preparation.

\* External and wet areas must have adequate falls and drainage. Do not allow water to pool or pond.

† Suitable **WPA** waterproofing membranes include:

- **WPA 200**
- **WPA 230UV**
- **WPA 235UV**
- **WPA 400**
- **WPA 500**
- **WPA 500LV**
- **WPA 880**

### **SETTING TIME**

<24 hours at 22°C and 50% Relative humidity.

Pot life and setting times will be influenced by ambient conditions. Shorter pot life and setting times should be expected in warm or dry conditions. Extra care should be taken in warm or dry conditions to ensure the adhesive has not stiffened significantly before the tiles are applied. Ensure that the open time has not been exceeded. If in doubt discard unused product and prepare a fresh batch.

### **STORAGE AND SHELF LIFE**

12 Months when stored off the ground in a cool, dry weatherproof environment.

### **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 Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.bayset.com.au](http://www.bayset.com.au) for copies.

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

### **WARRANTY CONDITIONS**

Tiling Products Australia warrant this product for 10 years provided the application is in accordance with our written directions for use and the relevant Australian Standards have been followed. The representations and recommendations regarding this product are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made due to the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, this product is sold with a limited warranty only, and on the condition that purchasers will carry out their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Tiling Products Australia be liable to anyone except for replacement of the products or refund of the purchase price.

### **IMPORTANT**

The information provided in this technical bulletin is as correct in detail as possible and is intended to give a fair description of the product and its capabilities. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. The product is guaranteed provided it is applied in accordance with our instructions as stated in this data sheet and any relevant Standard or Code, and provided the building and installation is structurally sound. Tiling Products Australia terms and conditions of sale apply.

### **STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this Tiling Products Australia publication is based on the present state of our best scientific and practical knowledge. 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. 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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