



# AP4

**C2S1 WATER-PROOF CEMENTITIOUS ALL PURPOSE  
TILE ADHESIVE ~ LIGHT WEIGHT / HIGH STRENGTH ~**

## Product Overview

AP4 is a polymer modified, light weight / high strength flexible standard setting cement based wall and floor tile adhesive. AP4 is made using specially formulated lightweight fillers and additives to produce excellent non-slump properties, improved workability, higher yield and >60% extra coverage over traditional sand/cement based adhesives. AP4 has been formulated for fixing a large variety of tiles including ceramic, porcelain and natural stone tiles to all types of substrate including those subject to limited movement and /or vibration such as plywood overlay, timber framework and underfloor heating. It is ideal for areas subject to prolonged or permanent wet conditions such as swimming pools. Can be used internally and externally, and it is unaffected by frost after setting.

## Product Features

- C2 - High Adhesion Strength
- S1- Good Flexibility making it highly suitable for wide range of tiles and substrates
- E - Extended Open time 3-4 hours, ideal where longer working times are required
- F - Fast Setting
- T - Non-Slip/ Non-Slump
- Greater than 60% extra coverage compared to traditional adhesives
- At least 50% lighter per square metre than traditional adhesives
- Ideal for use with Underfloor Heating Systems
- Fantastic slip resistance, ideal when fixing large format tiles
- Ideal for swimming pools and wet rooms
- 3mm-12mm bed depth
- Internal and External use

## Typical Applications

- Ceramic Tiles
- Floor tiles
- Terrazzo
- Quarry
- Marbles
- Sand stones
- Mosaics
- Granite
- Concrete
- Plywood overlay
- Electric underfloor heating
- Plasterboard

## General Application Details

### PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the tiles, tile adhesive and grout. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.



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### **MIXING & APPLICATION:**

Only mix small quantities at a time until you have become accustomed to the nature of the product. Always mix powder to water and mix to a smooth and lump free consistency. As a guide for powder to water ratio, 15kg of powder requires approximately 8.0 – 9.0 litres of water ie 1kg of powder to approximately 0.55 litres of water.

Never add water after initial mixing, as this will impair the strength of the adhesive.

Product that has started to set must be discarded.

**NB.** When fixing large format tiles, natural stone tiles and tiles that have deep studs on the back, you must skim the back of the tile with a thin 1 – 2mm layer of adhesive, this is referred to as back buttering. This will significantly improve the bond strength.

On a flat, even substrate where dry conditions exist, apply adhesive to the substrate as a thin floated coat at a uniform thickness of 3mm – 6mm and then rib / comb out using a suitable notched trowel. Where substrate conditions do not allow thin bed fixing, AP4 can be applied to a maximum bed thickness of 12mm. Ensuring the adhesive is still moist, bed tiles into adhesive using a twisting action ensuring full coverage of adhesive between tile and substrate. Regular checks should be made to make sure that there are no voids in the adhesive bed.

**NB.** When fixing tiles externally or in areas subject to prolonged or permanent wet conditions, you must ensure that you achieve 100% adhesive coverage between tile and substrate.

Clean surplus adhesive from the tiles and joints as soon as possible as set adhesive will prove very difficult to remove later.

Clean tools after use with water.

### **Important Notes**

AP4 contains no hazardous substances; however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes, wash thoroughly and immediately with warm water. If swallowed seek medical attention. For more details, please refer to the MSDS Sheet.

### **Packaging**

- 15kg Bag



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## General Technical Data

Physical Properties	
Aspect	Powder
Colour	Grey and White
Density	1.7gm / c.c. app
Coverage	15Kg will cover 10-12sq.m @ 3mm thin bed application
Bed Thickness	3mm-12mm
Pot Life	3 hrs @ 23C and 50% RH
Setting Time	12 hrs @ 23C and 50% RH

## Contact Details

TOTAL WATERPROOFING SUPPLIES CORPORATE PTY LTD

Telephone: +61 (2) 4940-3000

Email: [sales@totalwaterproofingsupplies.com.au](mailto:sales@totalwaterproofingsupplies.com.au)

### Product disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Total Waterproofing Supplies does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.