

## Technical Data Sheet ISSUED MARCH 2024

### PRODUCT DESCRIPTION

WPA Plug is a high strength instant solution for fixing leaks in structures even when water is actively flowing or under pressure. It comprises specialty cements and fillers to provide a workable fast setting putty like consistency which can be easily used even on vertical surfaces.

The unique formulation provides excellent workability of approximately 40-60 seconds and very high flexural and compressive strengths within 30 minutes. It is waterproof immediately.

Recommended for:

- Immediately stopping leaks in concrete structures and basements
- Immediately stopping water leaks in concrete tanks
- Treating of cracks, holes and voids
- Treating any rigid wall or floor slab joints

### FEATURES AND BENEFITS

- A high-strength instant solution for fixing leaks in structures
- Fast curing
- Stops active leaks
- Very strong
- Permanent solution to leaks in rigid structures

### APPLICATION PROCEDURE

#### For Damp or Active Leaks

Cracks need to be widened tapering the cavity so that it is widest towards the source of the leak (inside) and narrowest at the (outside) a dovetail route is the desired shape required. The minimum size should be 2cm at the outside face and no less than 2cm deep. Remove any debris from the prepared cavity.

#### For use on Rigid Joints

First, use an air compressor to blow out residual dust and debris. Wet the area liberally to soak the substrate and reduce porosity.

Allow water to dissipate so there is no residual water remaining. Remove all excess standing water with compressed air or a clean sponge that does not leave any residue with its use.

Once the surface is dry to touch you may apply the prepared mix.

### PREPARING WPA PLUG

#### WPA Plug is best hand mixed

Into a small container, add 3 part powder to 1 part water and mix until combined. For a slightly longer work time use cold chilled water.

Only mix sufficient material that can be used within 1 minute.

### USING THE PREPARED WPA PLUG

#### To stop a number of leaks

Start at the top and work down. Mold WPA Plug into a tapered corklike shape in a gloved hand, wait a few seconds for the chemical reaction to commence, then force the WPA Plug into the cavity to ensure the hole is filled, hold in position with firm pressure for 2 to 3 minutes.

Remove any excess using a concrete abrasive disk or similar.

#### To Waterproof Rigid Joints

The prepared Plug may be forcefully trowelled in immediately once the mix is prepared. Use a spray mist bottle to keep the joint damp for the first 20 minutes.

#### Precautions using and preparing WPA Plug

Store water and WPA Plug in a cool place prior to use so materials are at or below 23°C.

When temperatures are high, use very cold water to extend working and setting time – however hot powder will also greatly reduce working time. The reverse applies in very cold conditions where both powder and gauging water should be warmed to 23°C for the intended set and cure times.

Do not under any circumstances add any other materials to WPA Plug as it is factory set to perform as designed.

<b>Colour of Mix</b>	Grey Powder
<b>Mix ratio by weight</b>	100g powder to 34g water
<b>Mix ratio by volume</b>	3 parts of powder to 1 part of water
<b>Consistency of mix</b>	Plastic Putty
<b>Pot life at 20 degrees (Final properties)</b>	Approx 40-60 seconds
<b>Mechanical properties as per EN 196/1</b>	Water plug prepared using 34% of water by weight

FLEXURAL STRENGTH ( N/mm <sup>2</sup> )	
after 1/2 hours	2.75
after 1 hour	5.53
after 3 hours	6.15
after 24 hours	6.8
after 7 days	8.52
after 28 days	9
COMPRESSIVE STRENGTH ( N/mm <sup>2</sup> )	
after 1/2 hours	8.46
after 1 hour	23.48
after 3 hours	24
after 24 hours	28.2
after 7 days	42
after 28 days	52

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### **LIMITATIONS**

Do not apply **WPA Plug**:

- In very high temperatures.
- Directly over any existing coatings.
- Over dusty surfaces.

### **Clean Up**

Tools and minor spills can be cleaned with water while the product is still wet. Cured WPA Plug cannot be removed other than by mechanical means.

### **Packaging**

WPA Plug is available in 4.5kg pails.

### **Coverage**

A hole 10cm x 10cm x 10cm will require approximately 1.7kg of WPA Plug.

### **Shelf Life**

Unopened pails can be stored for up to 12 months in a cool, dry and weatherproof environment.

### **SAFETY INSTRUCTIONS**

For instructions on the safe use of WPA Plug please refer to the latest version of the Safety Data Sheet available from our website [www.wpa-us.com.au](http://www.wpa-us.com.au).

### **WARRANTY CONDITIONS**

Bayset Pty Ltd trading as Waterproofing 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**

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