Technical Data Sheet ISSUED APRIL 2026

PRODUCT DESCRIPTION

WPA FC is a high performance, fast cure, one component polyurethane sealant. When cured it will form a tough, flexible seal and bond, capable of cyclic expansion and compression movement. Joints or fabrications formed with this sealant can be expected to extend and compress a total of 50% (± 25%) of original joint dimensions to ASTM C719.

WPA FC is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weather ability enables it to retain its original properties after years of exposure. Its physical properties remain relatively unchanged over a wide temperature range (-40ºC to 70ºC).

Recommended uses:

- Vertical-Precast, Block work, plasterboard and most common building substrates.
- Sealing gaps and adhering most façade and cladding panels to various building materials
- Sealing construction and expansion joints
- Perimeter sealing of door and window framing
- For new construction and remedial applications
- Adhesive for wide range of building and construction applications

FEATURES

- Fast tack-free time and cure rate
- High bond strength
- A medium/high modulus product, which forms a resilient and permanently elastic seal
- Excellent adhesion to most materials including metals, concrete, brick, wood, plasterboard, GRC & CFC
- Paintable (refer paintability section)
- Non-slumping
- Resistant to fungal attack to AS1157.2
- Excellent resistance against hydrolysis, ageing and a wide range of chemicals
- One component, no mixing required
- High movement accommodation (± 25%) ASTMC719
- Australian Made

APPLICATION PROCEDURE

Surface Preparation

Clean all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants and any protective coating. Porous substrates should be cleaned by grinding saw cutting or blast cleaning (sand or water). Dust, loose particles, etc. should be blown out of joints with oil free compressed air or vacuum cleaned.

Non-porous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry cloth.

Priming Porous Substrates

- Priming of porous substrates is not normally required, however, adhesion tests are recommended prior to proceeding.

Priming Non Porous Substrates

1. Bostik N40 Primer is recommended for non-porous plastic and metal substrates.
2. Prime all plastics and metallic non-porous substrates with Bostik N40 Primer using the two-cloth method described below e.g. UPVC outlets and pipework, brass and copper fittings, and stainless steel trays and flashings.

Two Cloth Method – N40 Primer Application

- Dampen a clean and dry cloth with Bostik N40 Primer and spread evenly over the nonporous substrate using a cleaning/rubbing action.
- With a second clean and dry cloth, immediately wipe all primer residues off with a buffing action.
- Allow the substrate to dry for a minimum of 5 minutes before installing WPA FC.
- Do not leave the primer longer than 4 hours before applying sealant/adhesive.
- Re-prime if 4 hours has elapsed without applying sealant/adhesive.
- Clean and re-prime if the primed surface is contaminated before WPA FC is applied.

Application

WPA FC when used as an adhesive or sealant should be dispensed from the sausage by means of a hand or battery operated caulking gun designed for such application. Clip the end of the sausage and place complete sausage with pierced end located at the top of the nozzle and screw top of nozzle and housing on barrel of gun. Using the trigger on the gun to extrude product from sausage to stop product flow, using the thumb depress the catch plate mechanism located at the very rear of the gun, directly above the trigger.

Apply WPA FC in a continuous operation using positive pressure adequate to properly fill and seal a cavity.

Construction Adhesive Applications

WPA FC does not need to be applied to both surfaces to be bonded, but both surfaces must be prepared in accordance with preparatory work. Apply in beads or daubs to the prepared substrate. Materials being adhered can be bonded immediately or left open for up to 15 minutes after application prior to bonding.

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If no mechanical fixing is to be used in conjunction with adhesive, clamping is necessary until full cure is achieved. Use only enough sealant to achieve adequate bond (dependant on surface texture). Excess sealant can be removed by dry cloth or solvent wipe before curing. If adhesive is to be exposed, smooth off with spatula or putty knife to flush finish.

Construction Sealant Applications

WPA FC is especially suitable for vertical joint sealing. More joint movement can be accommodated in a thin bead of sealant than in a thick bead. The ratio of joint width of sealant to depth should be 2:1. The use of a bond breaker prevents undesirable three-sided adhesion. Open cell polyurethane foam or closed cell polyethylene foam rod is the recommended back up material to control correct sealant geometry. Install back up material or joint filler, as specified.

Apply WPA FC continuously using positive pressure to properly fill and seal the joint. Tool the sealant with adequate pressure to spread the sealant against the back up material and onto the joint sides. Excess sealant should be wiped from all surfaces while still uncured. Remove any masking tapes prior to sealant curing.

Mixing

No mixing is required, simply use directly from the sausage.

Coverage

The coverage table below is approximate and is dependent on substrate conditions.

Package size	10mm x 10mm joint	15mm x 10mm joint
600ml sausage	6 lm	4 lm

Calculation formula (W x D X L) / 1000 = Litres

Litres / 0.6 = No of 600ml Sgs

W = Width (mm), D = Depth (mm), L= Length (metres)

Construction Adhesive Applications

- WPA FC should not be used in highly chlorinated areas such as swimming pools, spas etc.
- WPA FC should not be used in glazing applications subject to UV light radiation or direct sunlight exposure
- WPA FC should not be applied or finished with wet tooling techniques, using solvents, water or detergent / soap solutions.
- WPA FC sealant should not be applied to unpredictable absorptive surfaces such as marble, limestone or granite unless a standard of appearance has been agreed on as a result of testing for stain and/or discolouration.
- WPA FC should not be applied onto or near any bitumen products.
- Do not use in interior or exterior structural sealing below the waterline in maritime applications.
- Do not apply at temperatures below 5°C or above 35°C.
- Do not apply to surfaces with special protective or cosmetic coating such as mirrors, reflective glass or surfaces coated with Teflon, polyurethane or polypropylene.
- Will not adhere to polyethylene, polypropylene or PTFE.
- As all substrates and conditions are different, it is strongly recommended that the applicator or end user conducts their own tests and ensure the product meets their own end use requirements.

Paintability

WPA FC can be painted a minimum of 24 hrs after application using water borne coating. Coatings containing high solvent contents such as gloss enamels or high oil based undercoats may cause the surface of the sealant to react creating a tacky surface to develop. A field test is recommended to ensure compatibility. To obtain best appearance and performance the paint must approximate the elongation capabilities of the sealant. High build coatings with some elastomeric ability such as quality acrylic emulsions have the capability to absorb low movement without significant distortion of the paint film.

Properties

Tack free time (minutes)	45 minutes
Appearance	Non-sag smooth thixotropic paste
Cure System	Moisture Curing
Flammability	Non Flammable
Rate cure in mm/24h	3.5
Service Chemical Resistance	Resistant to dilute acids & alkalis, some solvents intermittent contact with diesel and petroleum
Tensile Strength	2.5 – 3.0 N/mm^2
Joint Movement ASTM C719	± 25%
Elongation at break	>450 %
Application Temp	5°C to 35°C
Hardness Shore A	50
Colour	Grey
VOC	78 g/lt
Paintable approx.	24 hours after application
Temp resistance	-40°C to +70°C
Full cure	7 days
Acoustic properties	Excellent

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Storage & Shelf Life

Store between 5°C and 30°C. Shelf life is twelve months in original unopened cartridge or sausage

Clean-Up

The use of protective goggles, barrier creams and ointments, gloves, and protective clothing is recommended. Clean up uncured material and equipment immediately after use using Bostik Handi Clean Towels. Do not use towels on skin. Cured material can be removed by mechanical means only.

Packaging

WPA FC is supplied in 600ml sausages, 20 per carton.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA FC please refer to the latest version of the Safety Data Sheet available from our website www.wpa-aus.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. 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 Waterproofing Products Australia either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Waterproofing Products Australia, are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
Product	WPA FC
Initial Issue	April 2018
Technical Amendment	April 2026
Author	SR

Technical Data Sheets are subject to change without notice.
For latest revision, check our website at www.wpa-aus.com.au

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

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