



Seal 'N' Flex AP

CONSTRUCTION GRADE ACRYLIC JOINT SEALANT

DESCRIPTION

Bostik PU Construction is a general purpose, one component, polyurethane construction sealant. When cured it will form a tough, flexible seal capable of cyclic expansion and compression movement of 50% (\pm 25%) of the original installed joint width.

FEATURES AND BENEFITS

- Fast Tack free time and cure rate
- Excellent adhesion to most common building materials
- Low modulus
- Good durability
- One component, no mixing required
- Paintable
- Non staining

RECOMMENDED USES

- Insitu concrete
- Precast and tilt up panels
- Brickwork & block work

APPLICATION PREPARATION

Clean and dry all surfaces by removing foreign matter and contaminants such as laitance, oil, dust, grease, frost, water, dirt, old sealants, curing agents and any protective coating. Dust and loose particles should be vacuum cleaned.

APPLICATION

Bostik PU Construction is available in sausage only, and should be dispensed from a caulking gun (available from Bostik). Clip the end of the sausage and place in barrel gun. Screw end cap and nozzle on to barrel gun. Using the trigger extrude the sealant; to stop depress using the catch plate. Apply in a continuous bead using enough pressure to properly fill the joint. Tool off surface of sealant with an appropriate sized spatula or trowel. Apply sufficient pressure to leave a smooth, consistent surface and ensure maximum contact with the interface of the joint.



JOINT SEALING HINTS

- Always use backing rod for correct sealant geometry & contact with the substrate.
- Prime after the installation of the backing rod.
- Ensure maximum adhesion to bond face.
- Minimum allowable joint depth is 6mm.
- Minimum allowable joint width is 6mm.
- Depth to width ratio of 1:1 up to 12mm width, and 1:2 from 12-50mm width.
- Tool sealant to achieve concave shape.

COVERAGE

The estimated lineal metre yield, per pack size is recommended in the following table. No allowance has been made for waste or irregular joint geometry.

JOINT SIZE (DXW)	6mm	10mm	10mm
	X 5mm	X 10mm	X 20mm
600 ml sausage	20	6	3

Calculation formula:

$$(W \times D \times L) / 1000 = \text{Litres}$$

$$\text{Litres} / 0.6 = \text{No of 600ml Sgs}$$

$$W = \text{Joint Width (mm)} \quad D = \text{Joint Depth (mm)}$$

$$L = \text{Length (metres)}$$

PACKAGING

Bostik PU Construction is supplied in 600ml sausages, 20 per carton

STORAGE AND SHELF LIFE

Store between 5°C and 30°C. Shelf life is one year in original unopened 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.

PRIMING

(Generally, priming for porous substrate is optional but for best result follow the instruction below)

POROUS SUBSTRATES

- Absorbent of porous substrates will allow a bead of water to easily soak into and wet out the surface of the substrate.
- For maximum performance on porous surfaces and, in all periodically immersed and submerged applications, use Bostik N49 Primer, or one coat of Bostik MVP525 (refer to the relevant Technical Data Sheet).
- Porous substrates not subject to immersion or ponded water, e. g. vertical expansion joints in concrete or masonry structures do not require priming if clean, dry and contaminated.

NON POROUS SUBSTRATES

- Non-absorbent substrates will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate.
- Bostik MVP525 is recommended for non-porous or burnished/overworked concrete substrate (refer to the Bostik MVP525 Technical Date Sheet)
- Bostik N40 Primer is recommended for non-porous plastic and metal substrates E.g. UPVC outlets and pipe work: brass, copper fittings, stainless steel trays and flashings (refer to the Bostik N40 Technical Data Sheet)
- Prime all plastics and metallic non-porous substrates with Bostik N40 Primer using the two-cloth method described in the Bostik N40 Technical Date Sheet.

IMPORTANT NOTES

Bostik PU Construction must not be:

- Used in chlorinated water such as swimming pools, spaces, etc.
- Used on any material containing bitumen
- Constantly immersed in salt water.
- Used for glazing applications.
- Applied to cement based substrates within 28 days or initial pour or set.
- Used in trafficable joints.
- Applied at temperatures below 5°C or above 35°C.
- Exposed to water and/or alcohol before it has completed cured.
- Finished using wet tooling techniques, using solvents, water or detergent/ soap solutions.
- Applied less than 5mm in width.
- Applied less than 6mm in depth.

The maximum joint width on vertical substrates is 20mm; maximum joint width on horizontal substrates is 50mm. Allow 14 days for full cure in joints over 20mm in width.

PAINTABILITY

Bostik PU Construction can be painted after full cure. Coatings containing solvents such as enamels, oil based or other coatings may cause the surface of the sealant to react creating a tacky surface. Surface coatings may discolour in direct contact with cured Bostik PU Construction. Surface coatings may crack and craze as a result of cyclical movement of supporting sealant joint. A field test is recommended to ensure compatibility of any coating with Bostik PU Construction (refer PATS).

BOSTIK CO-OPERATIVE TEST PROGRAM (PATS)

Bostik offer a service in which a program has been established to eliminate potential field problems by pretesting Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

PHYSICAL PROPERTIES

Colour	Grey
Appearance	Non-sag smooth thixotropic paste
Cure Method	Moisture Curing
Tack free time	100 min
Rate of cure	3mm/ 24h on porous substrates
Hardness shore A	25 approx
In service Temperature range	-40°C to +70°C
Chemical resistance	Resistant to dilute acids, alkalis & some solvents. Intermittent contact with diesel and Petroleum.
Elongation at break	>800%
Full cure	7 days
Application Temperature	5°C to 35°C
Tensile strength	>1.0 N/mm ²
VOC g/Lt	64

DISCLAIMER:

The information in this Technical Data Sheet is intended for the assistance of users and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge and control. Users are asked to make sure that the TDS in their possession is the latest issue. Likewise, we recommend users carry out their own tests to determine the suitability of the product for their particular purposes.

Any claim for a defective product must be filed within 30 days of discovery of a problem and must be submitted with written proof of purchase. Claims are not transferrable or assignable and extend only to the original purchaser/user. Bostik reserves the right to inspect alleged failure and no responsibility will be accepted unless Bostik is given the opportunity to do so. Bostik limits its liability to the replacement of the product/s proven faulty.

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