

PU18

High Strength Polyurethane Adhesive And Sealant

Technical Data Sheet



PREMIERE SILICONE & SEALANT RANGE

CLASS
EN15651-1,4; F EXT-INT-CC
PW-EXT-INT-CC-25HM

Description:

A one part moisture curing polyurethane adhesive/sealant for the construction and transport industries. PU18 is also oil resistant making it ideal for the engineering industry. Conforms to BS EN 15651-1,4:2012.

Features & Benefits:

- ◆ **Adhesive and sealant.**
- ◆ **Shore A Hardness of 40.**
- ◆ **Excellent adhesion characteristics.**
- ◆ **Resistant to most chemicals and oil.**
- ◆ **Produces tough, elastic seals and joints.**
- ◆ **Helps dampen vibration.**
- ◆ **Overpaintable*.**
- ◆ **Interior and exterior use.**

Uses

Bond It PU18 can be used for sealing and bonding in engineering, construction, automotive and marine applications.

It is ideal for use on: concrete, wood, metals, GRP, glass, rubbers, PVC, ceramic, polyester, stone, and most common building materials and is suitable for wooden flooring. Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergent. Resistant to short-term contact with non-chlorinated hydrocarbon fuels.

Limitations

Do not use for aquarium construction. Do not use with bitumen or asphalt. Not suitable for joints with movement greater than 15%. Discolouration of white and grey shades may occur when exposed to UV. Not resistant to alcohols, organic acids, concentrated alkalis, concentrated acids and chlorinated (hydrocarbon) fuel. Do not apply at temperatures below +5°C or above +35°C.

Preparation

Ensure all surfaces are clean, dry and free from grease or any contaminants that may hinder adhesion.

Application

As from 24 August 2023 adequate training is required before industrial or professional use.

Puncture seal at the base of the nozzle screw. Apply using a standard sealant gun.

When bonding bring two components together before the product skins. When using as a sealant tool with detergent solution within 10 minutes. The maximum depth of sealant must not exceed 12mm; the minimum depth is 0.5mm.

PU18 is over paintable with water based paints*, however, tests should be carried out with solvent based paints to determine suitability.

Cleaning

Tools can be cleaned immediately using acetone. After curing, the product must be removed by abrasion.

Coverage

Depending upon substrate condition and porosity the approximate coverage rates will be approximately 1m² per cartridge.

Colour

Available in 3 colours: white, grey and black.

Size

310ml metal cartridge and 600ml foil sausage.

Shelf Life

Minimum 12 months from date of manufacture when stored in original, unopened cartridges.

Storage Conditions

Store in cool, dry conditions at a temperature between +5°C and +25°C. Protect from frost and direct sunlight.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Remove any containers to a central disposal point in accordance with local regulations.

Health & Safety

Please refer to separate safety data sheet (SDS) for full handling, use and storage instructions. Keep out of reach of children. It is the user's responsibility to determine suitability for use. If in doubt, contact our Technical Department for advice.

Note: this information is for general guidance only, since site conditions and labour are beyond our control.

Specification Summary

Form	Thixotropic paste
Tack free time (at +25°C and 50% RH)	60-90 minutes
Thickness polymerised after 24 hours (at +23°C and 50%RH)00	2-3mm
Application Temperature	+5°C to +35°C
On a polymerised joint	
Shore A Hardness (ASTM O 53505)	ca 40
Modulus @ 100% (ISO8339)	0.4 MPa
Elongation At Break ISO 8339	≥500%
Tensile Strength	10N/mm
Service Temperature Range	-30°C to +80°C
Density	1.2g/cm ³
Commodity Code	3214101010

Product / Order Details

Code	Colour	Fill	Barcode	UFI
BDPU18WH	White	310ml	5060021362162	K780-WOXM-800F-JJ9N
BDPU18GR	Grey	310ml	5060021362414	K780-WOXM-800F-JJ9N
BDPU18BL	Black	310ml	5060021362407	K780-WOXM-800F-JJ9N
BDPU600GR	Grey	600ml	5056437401953	K780-WOXM-800F-JJ9N
BDPU600WH	White	600ml	5056437401946	K780-WOXM-800F-JJ9N
BDPU600BL	Black	600ml	5056437401960	K780-WOXM-800F-JJ9N





Part of the Bond It Silicone & Sealants Range

Head Office: Unit G16 River Bank Way, Lowfields Business Park, Elland, West Yorkshire HX5 9DN.

Telephone: +44 (0)1422 315300 **Email:** salesuk@bonditgroup.com

EU Office: SISL (Bond It) Ireland Limited, 70 Sir John Rogerson's Quay, Dublin 2.

Website: www.bonditgroup.com

 22	 14
BOND IT G16 River Bank Way, Elland. HX5 9DN. UK	
EN15651-1,4:2012 F EXT-INT-CC 25HM PW-EXT-INT-CC 25HM	
DoP: BDPU18 NB: 2538	DoP: BDPU18 NB: 1292
Façade sealant for exterior and interior use. Sealant for walkways and pedestrian walkways for internal and external use.	
Reaction to fire	E
Release of chemicals	None
Resistance to flow	≤ 3mm
Loss of volume	≤ 15%
Tensile properties after water immersion	Pass
Tensile properties after maintained extension	Pass
Tear Resistance	Pass
Durability	Pass

Note: The data presented in this leaflet is in accordance with the present state of our knowledge, but does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary clarifying the position. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the products for a particular purpose.



Version 11: 26/01/24(S)
 Supercedes V10 26/10/22

bond it