

Technical Data Sheet

Bondloc PU 52

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Bondloc PU 52

PRODUCT DESCRIPTION

PU52 is a single component, high performance, moisture curing polyurethane adhesive/sealant.

APPLICATIONS

PU52 is a high quality adhesive/sealant suitable for structural joints that will be subjected to dynamic stresses. PU52 is particularly suitable on timber, metals (particularly aluminium), most sheet steels, ceramic materials and some plastics.

USEFUL NOTES

Benefits:

- Excellent chemical and water resistance
- Overpaintable
- Good gap filling properties
- Tested and approval to German TUV road safety testing authority
- Vibration damping
- Easy to use
- Electrically non-conductive
- Low odour
- Bonds well to a wide variety of substrates

PROCEDURE FOR APPLICATION

Manual application - Ensure surfaces/joints to be bonded are sealed and are clean and free from grease, dust and any other contamination. For best results clean with Bondloc S1909 Cleaner. Where applicable prefill joints with a cross linked polyethylene foam to give the required joint depth. For maximum bond strength prime surfaces with Bondloc Universal Primer. Pierce metal seal on the tip of the cartridge and screw on nozzle. Cut nozzle to desired size, cutting at a 45° angle. Insert cartridge into gun and press out the metal seal at the base of the cartridge. Apply the material at the desired rate. Smooth the surface of the joint with a spatula tool dipped in water that contains a little detergent. Allow to cure.

Automatic application - Bondloc PU52 can be applied via semi and full automatic machinery. Please consult our technical department for further details.

STORAGE

Shelf Life > 9 months @ 5°C to 20°C.

HEALTH & SAFETY IN USE

This Technical information sheet does not constitute a Material Safety Data Sheet. Before using this product ensure you have read and fully understood Bondloc Material Safety Data Sheet PU52.

TECHNICAL FEATURES

Chemical Base	Moisture curing Polyurethane
Colour	Black, White
Density (DIN 53479)	1,15 - 1,24 Kg/l dependant upon colour
Shrinkage (DIN 52451)	6%
Stability	Very good
Curing Speed @ 25°C and 50% RH	4mm after 24 hours
Skin formation	Approx. 40 mins

TYPICAL COVERAGE RATES

Estimated Linear Metres per 310m Cartridge

Width (mm)								
Depth (mm)	3	6	8	10	12	15	20	25
3	34.4							
6		8.6	6.5	5.2	4.3			
8			4.8	3.9	3.2	2.6		
10				3.1	2.6	2.1	1.6	
12					2.2	1.7	1.3	1.0

Coverage rates per litre are available from our Technical Department.

TYPICAL BOND CHARACTERISTICS

Hardness (Shore A) (DIN 53505)	Approx 55
Tensile Strength	4 N/mm ²
Elongation at Break (DIN 53504)	> 300%
Tear strength	> 9 N/mm
Volume Resistivity (DIN 53482)	10 10 approx
Glass Transition Temperature (DIN 53445)	-40°C
Service Temperature	-40°C to 90°C

PRESENTATION

PU52 is available in 310ml cartridges, 400ml and 600ml foil packs.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product.

Warranty: All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is considered accurate but is furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.