

TECHNICAL DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND ENTERPRISE

NAME OF THE PRODUCT BPR Two-component epoxi Universal 50ml

CODE 090088 (1.5min), 090089 (3.5min)

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2. DESCRIPTION

BPR Two-component epoxi Universal 50 ml is a very fast curing, easy to use structural 2-part polyurethane adhesive which cures by a chemical reaction of the two components forming a durable polymer resistant to elevated temperature, moisture, fuel, many solvents and chemicals.

It is specially designed for small, quick, durable bonding and repair jobs. The use of BPR Two-component epoxi Universal yields a fast turnaround due to early sanding and painting capability. It shows good sag resistance properties, allowing vertical application and offers excellent gap filling properties. In combination with a reinforcing mesh broken or missing bumper tabs can be rebuilt.

3. PRODUCT FEATURES

3.1. Nominal components properties

	Component A	Component B
Chemical Base	Reactive Isocyanate Prepolymer	Reactive Polyol Mixture
Colour	Black	White
Specific Gravity [g/cm ³]	~1,28	~1,21
Viscosity [cps or mPas]	~60.000	~50.000
Appearance	Sag Resistant Paste	Sag Resistant Paste

3.2. Typical cure characteristics:

		Ref. 090088	Ref. 090089
Working time	@ 23°C [sec]/[min]	90 / 1,5	210 / 3,5
Sanding time	@ 23°C [min]	10	30
Clamp time	@ 23°C [min]	5	10

3.3. Typical properties of cured adhesive

Shore D Hardness	EN ISO 868 @ 23º C	63
Tensile strength	EN ISO 527 @ 23º C [MPa]	23
Young's modulus	EN ISO 527 @ 23º C [MPa]	420
Elongation at break	EN ISO 527 @ 23º C [%]	55
Glass transition temperature	ISO 11357 [ºC]	65

*Please consider the provisional status of the reported data. As a result of further trials the information and product data provided with this data sheet might be subject to change.

A. LAP SHEAR INFORMATION

	Pretreatment					
Substrate	Cleaning	Sanding	Cleaning	Bondline thickness	Expected failure mode	Average strength
CRS	Acetone	K80	Acetone	1mm	Cohesive failure	15,3 Mpa
SMC	Acetone	None	None	1mm	Substrate failure	5 Mpa
PVC	IPA	K120	IPA	1mm	Mixed failure	3,3 Mpa
PMMA	IPA	K120	IPA	1mm	Substrate failure	4 Mpa
PP	Acetone	K140	Acetone	1mm	Adhesive failure	1,3 Mpa

4. USE INSTRUCTIONS

BPR Two-component epoxi Universal 50ml adhesive system has been designed for ease of dispensing with both hand-held manual and pneumatic applicator tools. To assure an on ratio dispense we recommend levelling the pistons by placing the opened cartridge in the dispenser and purge till material starts to flow from both cartridge chambers prior to attaching the mixer. After attaching the mixer tip (we recommend to only use the mixer tips included in the package) and loading the cartridge into the dispense tool, pull the trigger at a constant and steady rate to force both prepolymer and curative through the mixer tip. It is recommended to discard the first 25 to 50 mm of dispensed material as it may be off-ratio. Sufficiently mixed on-ratio adhesive has a uniform black color, is creamy, smooth and glossy.

The material in the mixer will become very difficult or impossible to dispense at about one-half of the open time. Either keep material flowing through the mixer during short periods of time adhesive is not needed or replace the mixer prior restarting dispense.

After having finished dispensing, leave the mixer in place till BPR Two-component epoxi Universal shall be used again. The remainder of the adhesive will have a shelf life of several weeks if stored properly. To start using BPR Two-component epoxi Universal 50 ml again, remove the static mixer and dispose of properly. Carefully clean the cartridge nozzle, the products in the two chambers must be cleanly separated. If there is any black-tan mixing on either side dispense some product out of the openings with no mixer tip attached, until only single component product resides in each chamber. Finally attach a new mixer and start dispensing.

5. SAFETY NOTE

Please observe the information provided with the Material Safety Data Sheet

STORAGE: Unopened containers stored at a dry place indoors at 15-32 °C

SHELF LIFE: 18 Months in the originally sealed cartridge

The information contained herein are given in good faith based on our current knowledge and experience on the product when properly stored, handled and applied under normal conditions in accordance with our recommendations. In practice the differences in materials, substrates and actual site conditions are such that no warranty in respect to merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred from this data sheet. The recommendations or suggestions contained in this data sheet are made without guarantee as to results. We suggest that you test the product's suitability for the intended application and purpose prior to use. Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material. RIED reserves the right to change the properties of this product. The proprietary rights of third parties must be observed.