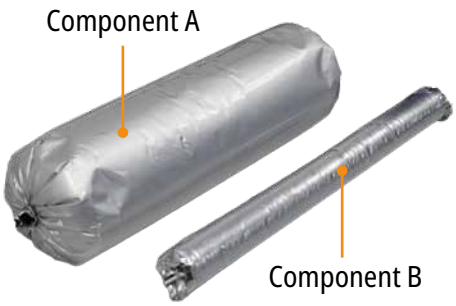
DINITROL

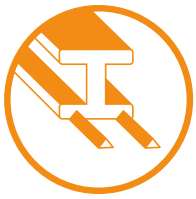
DINITROL 516 A/B

2-component system

The 2-component system DINITROL 516 A / B is used together with the corresponding pretreatment agents for bonding in vehicle construction and for industrial bonding in railway and bus construction.



- **Long open time, approx. 35 minutes**
- **Bonding with large geometries/ large material usage**
- **No CO_2 bubbles = no voids**
- **Bonding and sealing possible in one operation**
- **Adhesive characteristics are communicated, OEM approved**
- **Fast curing and strength build-up, independent of humidity**
- **Cycle time reduction (travelling times, shifting times, etc.)**
- **Reliable bonding in time**



Equipment

DINITROL 2C Bonding machine on request

DINITROL COMPACT PUSH DISPENSER
Art. No. 1700900
1 x 20 V battery pack
1 x charger
1x holder for aluminium cartridge
1x aluminium cartridge for tubular bag filling A/B incl. squeeze piston A/B

DINITROL Manifold, 15 pcs.
Art. No. 1701100

DINITROL Mixer, 15 pcs.
Art. No. 1701200

DINITROL 516 A/B

Component A				Component B			
Art. No.	**Size**	**Package**	**Colour**	**Art. No.**	**Size**	**Package**	**Colour**
12486	580 ml	Foilwrap	Black	12487	58 ml	Foilwrap	White
12558	25 kg	Hobbock	Black	12482	1 L	Can	White
12480	50 kg	Hobbock	Black	12481	30 kg	Hobbock	White

a brand of DINOL

DINOL GmbH Pyrmonter Straße 76, D-32676 Lügde, Germany
Tel. +49 (0) 5281-98 2 98-0, Fax +49 (0) 5281-98 2 98-60, www.dinol.com

11.2024

DINITROL 516 A/B

Technical Details

Applications
The A component, DINITROL 516 A, is an polyurethane adhesive which, even without accelerator paste, cures due to the humidity to an elastomer with the well-known good adhesive and mechanical properties. The reactive accelerator paste DINITROL 516 B was developed in order to achieve curing regardless of the ambient humidity and the bond geometry. Both products are matching to each other. The use of the B component enables the components to be handled in an early stage. An particular advantage of this 2C system is: when the 2C adhesive hardens, no CO2 is produced. Bubble-free gluing and jointing is therefore possible, even in one operation.

Method of Use
It is applied using commercially available mixing systems. DINITROL 516 A is conveyed out of hobbocks, DINITROL 516 B is brought out of hobbocks or cartridges. The mixing ratio is between 100: 6 and 100: 10. Mixing is done by special static mixers (> 18 elements).
For manual application, DINITROL 516 A / B is processed from a side by side cartridge (100: 10) with the required dispenser (DINITROL Cartridge Tool 2 C 20V Cordless).
The application takes place at room temperature. The surfaces to be bonded must be cleaned and pretreated according to our recommendations.
The use of this product is suitable only for experienced users. Pre-tests are recommended for special applications.

Repair
If repairs are necessary, the old polyurethane bead is cut down to 1 up to 2 mm after the element has been removed (as soon as possible before re-gluing). The re-gluing should be carried out within 6 hours. The cut down old bead is reactivated beforehand with DINITROL 540 reactivator and a lint-free paper towel or applicator foam, and the new adhesive is applied to the flashed old bead within 10 minutes. A reactivation can be repeated.

Further information
Folgende Dokumente sind auf Anfrage erhältlich:
- Safety data sheet
- DINOL pre-treatment chart
- Operation manual for DINITROL 2C Compact Push Dispenser

Transport
Transport conditions between 0 and 35°C. During transport these temperatures can be exceeded or fallen shortly below (2 – 4 days). In this case, the material must be acclimatized before application at room temperature. For barrels, hobbocks, foil wraps and cartridges on pallets, this takes 1 to 2 days. 3 up to 4 hours are required for single cartridges or foil wraps.

Technical Data

DINITROL 516 A	reactive polyurethane
Appearance	black paste
Density	1.2 g/cm³
DINITROL 516 B	Accelerating paste
Appearance	white paste
Density	approx. 1.45 g/cm³
Density at 20°C	approx. 1.22 g/cm³
Mixing ratio	100 : 6 till 100 : 10 (516A : 516B) (V/V)
DINITROL 516 A / DINITROL 516 B	
Standing properties	very good
Open Time (the times may vary depending on the processing equipment used):	
Mixing-ratio 100 : 10 (v/v)	30 – 40 minutes
Mixing-ratio 100 : 6 (v/v)	40 – 50 minutes
Application temperature	15°C – 35°C
Shore A hardness (DIN 53505)	approx. 55
Tensile strength (DIN 53504)	> 7 MPa
Elongation at break (DIN 53504)	> 400%
Tear strength (DIN 53515)	approx. 10 N/mm
Lap-shear-strength (DIN EN 1465)	> 5 MPa
Tensile shear strength (DIN EN 1465) after 6 hours	> 1.3 MPa
Shear modulus (DIN 54451)	approx. 1.3 MPa
Volume resistivity (DIN 60093)	approx. 10^6 Ωcm
Glas transition temperature	approx. - 50°C
Termperature resistants long-term short-term (approx. 1 h)	 < 90°C < 130°C
Shelf life (storage below 25°C)	Hobbock and Foilwrap: 12 months (A-Comp.), 15 months (B-Comp.)
Available in	50 L & 25 L Hobbock (A-Comp.), 25 L Hobbock (B-Comp.), 580 ml Foilwrap (A-Comp.), 58 ml Foilwrap (B-Comp.), 1 L PE Cartridges (B-Comp.)

23°C / 50% rf

Comp. A - Hazards identification
2.1. Classification of the substance or mixture
GB CLP Regulation
Resp. Sens. 1; H334

Comp. B - Hazards identification
2.1. Classification of the substance or mixture
GB CLP Regulation
This mixture is not classified as hazardous in accordance with GB CLP Regulation.

For all relevant safety advices please read the material safety data sheet or the packaging label.