



# NOVABOND®

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NOVABOND® is a special, strength, two-component epoxide putty, of pasty consistency intended especially to repair metal components and filling in their missing parts. It is characterized by fine structure, high strength, chemical and thermal resistance. It does not corrode and is easy to be applied.



## USAGE

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NOVABOND® is used to putty large bumps, cavities and surface cracks of components made of steel, grey iron, cast steel, aluminium and aluminium alloys; it can be used to complete missing parts of cast-iron and steel products, as well as concrete and various kinds of stone. It is easy to be applied even in thick layers; it does not become deformed; it does not sink. It adhered perfectly; the contact surface does not corrode. Surface processing by cutting, milling, turning, grinding, drilling is possible when hardened (after approx. 24 hours); it can be varnished, and threads can be cut in it. Thanks to its properties, it is used for repairs of cracks of fittings and flanges, making clearance, repairs of casts, radiators, tanks, gearboxes etc.

## BENEFITS

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- Easy to be applied
- Thermal resistance
- Chemical resistance
- It is not deformed or sunk
- It is not deformed or sunk

## USER MANUAL

### Instructions for use - surface preparation:

Clean the surface to be treated well. TECHNOSOL® should be used for degreasing. Roughen the surface thoroughly up to pure metal (by grinding or sanding). We recommend making holes bigger or broader when repairing small defects or micro porosity, for example, cut a V-shaped groove when repairing fissures in cracks. Bigger holes guarantee perfect anchoring, and thus obtaining reliable strength.

Clean the surface with TECHNOSOL® again before NOVABOND® is applied.

### Instructions for use - puttying:

Mix both ingredients (A and B) in the plastic container because of possible sedimentation before the preparation of the NOVABOND® mixture. The mixing ratio of NOVABOND® ingredients is 2 : 1 (2 units of A and 1 unit of B). Mix both ingredients thoroughly (2-3 minutes) in the given ratio and apply them to the place to be repaired. Processability time is about 15 minutes. The surface can be smoothed using a wet spatula or another tool after withering to obtain a perfectly smooth surface. When puttying deep holes, putty must be applied in layers to be compacted using a suitable tool. Time for hardening depends on temperature and the thickness of the layer. A thinner layer is hardened in a longer time, a thicker one hardens more quickly. The NOVABOND® is hardened after about 4 hours after mixing at 22 °C. The minimum temperature for application is 5 °C; however, it prolongs the duration of the hardening process considerably. We recommend applying a thicker layer of the putty, processing it after full hardening (about 24 hours). To obtain better properties, the material can be gradually heated up to the temperature of about 80 °C during 4-24 hours (forced hardening) after having reached the manipulation strength. This causes perfect molecule networking (interconnecting) and complete hardening of the material. This improves the resulting hardness, thermal and chemical resistance.

## TECHNICAL DATA

Colour of ingredients	brown and grey
Colour of the mixture	dark grey
Processability (22 °C)	about 15 minutes
Hardening time (22 °C)	about 180 minutes
Manipulation strength (22 °C)	after about 80 minutes
Final strength (22 °C)	24 hours
Minimum hardening temperature	+5 °C (a longer hardening period must be taken into account)
Thermal resistance	-35 °C to +150 °C, 180 °C for a short time
Shore D hardness, 24 hours	D 87
Slide strength	at least 20 MPa
Flexural strength	at least 60 MPa
Tensile strength	at least 95 MPa
Impact persistence	at least 15 kJ/m <sup>2</sup>
Chemical resistance	oil, water, gasoline, weak acids and alkalis; not resistant to chlorinated and aromatic hydrocarbons (acetone, perchlorine)
Mixing ratio of ingredients	2 units of A ingredient + 1 unit of B ingredient

## CONTENT

## STOCK NUMBER

750 g set (Ingredient A - 500 g, Ingredient B - 250 g)

499 910

## RELATED PRODUCTS

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TECHNOSOL®



All products of NOVATO® spol. s.r.o., which are a chemical mixture or a dangerous chemical mixture, are properly classified, marked and equipped with safety data sheets in accordance with the Chemical Act and relevant regulations within the EU. All hazardous mixtures have a safety data sheet, which is freely available on our website [www.novato.cz](http://www.novato.cz), eventually at our sales representatives and in the sales department of the company. All users of NOVATO® products are legally required to familiarize themselves with the technical and safety data sheets of the product concerned to ensure proper use, storage and handling of the product. Our oral and written technical recommendations, which we transmit with the utmost knowledge, cannot cover all details and conditions of the application and do not exempt users from their own examinations and tests in relation to third party rights. Therefore, the user is obliged to perform tests and tests for individual applications in such a way as to eliminate all risks associated with the application of the chemical mixture, especially the hazardous chemical mixture, as these applications and their conditions are beyond our control possibilities. NOVATO® spol. s.r.o. guarantees the declared quality of its products and the properties described in the technical and safety data sheets.

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