

Optimax 8085B/N Two-Component Polyurethane

Description

Optimax 8085B/N is a two component, room temperature curing, black/neutral, odourless, thixotropic polyurethane adhesive specially designed for structural bonding of a wide range of materials including thermosetting and thermoplastic materials, steel, aluminium, concrete, wood and glass.

Physical properties

Properties	Component A	Component B	Mixed
Chemical base	Polyol	MDI	Polyurethane
Cure mechanism	-	-	Polyaddition
Mixing ratio by volume	1,00	1,00	-
Mixing ratio by weight	0,89	1,00	-
Colour	Black/Natural	Amber	Black/Natural
Appearance	Liquid	Liquid	Thixotropic
Viscosity	5000 mPas	600 mPas	30000 mPas
Relative density	1,14	1,20	1,17
Application temperature	+10 / +30 °C	+10 / +30 °C	-
Flashpoint	>200 °C	230 °C	-
Vapour pressure	Very Low	0.000004 mmHg	-
Solubility in water	Insoluble	Insoluble	-
Shelf life	12 month	12 month	-
	treatment of the surfaces to be bonded. Surfaces to be bonded should be cleaned with a degreasing agent in order to remove all traces of dust, dirt, oil and grease. Pre-treatment of thermoplastic materials such as PVC, polycarbonate, polypropylene, PMMA, etc., can be made using a mixture of light ethers or with iso-propanol. Use of strong solvents is not recommended due to the risk of damage to the plastic surface. Pre-treatment of other surfaces can be made using acetone or trichloroethylene. Petrol or other solvents should never be used. Where possible, carry out a mechanically abrading to remove paint from the surfaces (where necessary), this will also increase physical strength properties. Allow the pre-treated area to dry before applying the adhesive.		
Application	Optimax 8085B/N is available in a twin cartridge (side by side or coaxial), or in different size drums. A static mixer with a minimum of 16 elements should be used A minimum 0.2 mm of bondline thickness should be used for maximum strength.		
Reaction	The speed of cure is mainly influenced by two factors: the application temperature and the bondline thickness. As the reaction is exothermic, speed decreases as bondline thickness and ambient temperature decreases. Materials with a high coefficient of thermal conductivity will tend to slow down the reaction. The maximum reaction temperature is reached with a 5mm bondline thickness and is always below 60°C.		

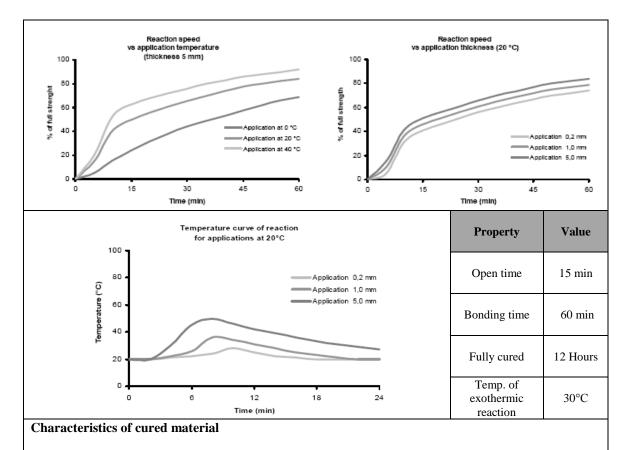
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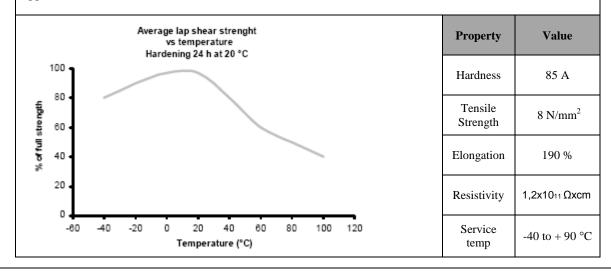
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The below properties have been obtained through standard sample tests, by bonding and overlapping samples of different materials of dimensions $100 \times 20 \times 20$ mm with an adhesion area of 20×20 mm. The values, obtained with standard methods on typical lots, are exclusively provided as technical information, and not as product specification. In any case, it will be up to the user to test the product for a specific application.



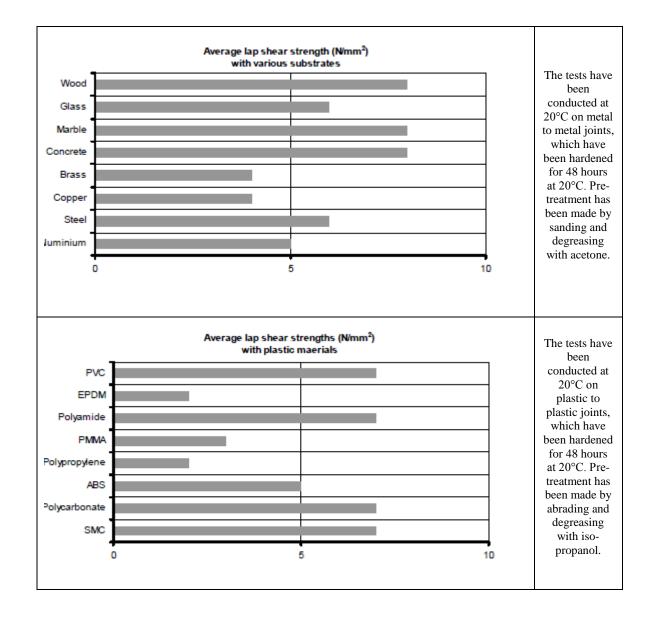
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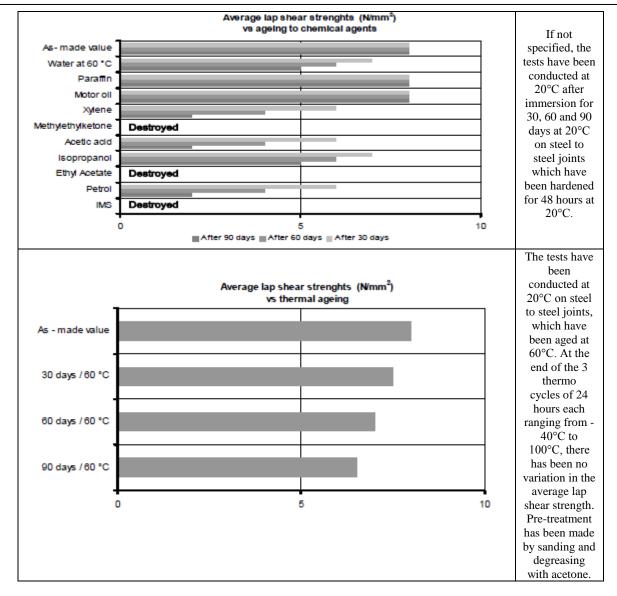


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Storage

Shelf life of 12 months from the initial production when stored in a cool and dry place, between +10°C and 25°C. Product expiry date is indicated on the label.

Notes

The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. Novachem Ltd. and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

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