

OPTIMAX[®]

Technical Data Sheet

High Performance Manufacturing Adhesives & Sealants

Revision number 090914

Product	Optimax [®] 8440 UV Curable Medium Viscosity Windscreen Repair Resin	
Description	Optimax [®] 8440 is specifically formulated to repair stone chips and cracks in automotive windscreens. Designed as a medium viscosity resin for bull's eye repairs.	
Advantages	Excellent clarity. Cure-on-demand one-component system. Cures by exposure to UV light with maximum absorption within the range of 350-380 nanometers. Good resistance to temperature extremes. Excellent adhesion. Low shrinkage.	
Application	The medium viscosity characteristics of Optimax [®] 8440 offers an excellent solution for medium size cracks and stone chips during windscreen repairing. Optimax [®] 8440 has excellent adhesion to windscreen glass surfaces with clarity that matches the windscreen's refractive index.	
Physical properties	Chemical Type	Urethane Methacrylate
	Appearance	Clear liquid
	Specific Gravity@ 25 °C	1.1
	Viscosity @ 25 °C, mPa.s (cP)	
	Brookfield	40
	Refractive Index	1.52
	Tensile Strength	19.3
	Elongation @ break %	125
	Hardness, Shore D	75
Cure Overview	This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time.	
Cure conditions	Cure can be affected with both low and high intensity UV light sources. A low UV intensity of 30 mW/cm ² will cure highly transmitting surfaces with < 0.25mm gaps in 5 seconds or 1.5mm to 2.5mm gaps in 10 to 20 seconds. A high UV intensity of 100 mW/cm ² will cure highly transmitting surfaces with < 0.25mm gaps in 2 seconds or 2.5mm to 5mm gaps in approximately 15 seconds.	
Storage	Store between 8°C to 21°C out of direct sunlight and in tightly sealed original containers. Refer to packaging specific quote for shelf life information.	
General information	For safe handling of this product consult the Material Safety Data Sheet.	
Data ranges	Data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.	
Safety	Consult the Material Safety Data Sheet.	

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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 product 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.