

NANOMYTE® MEND 1000 is a thermally-induced, self-healing coating. The 2-part coating involves a unique phase-separated morphology that facilitates the delivery of the self-healing agent to the damage site (such as a scratch or crack) thereby restoring the coating appearance & function. The coating can be self-healed by the application of warm air for several seconds with a simple device, such as a household hair dryer.

PHYSICAL CHARACTERISTICS

Composition:	2k polyurethane with proprietary additives
Color:	Clear, colorless
Gloss (20°/60°):	88 GU/ 92 GU
Pot Life:	> 3 hours
Viscosity:	Not available
Curing Temperature:	60°C (minimum)
Solvent:	Toluene
Catalyst:	Tin
Mixing Ratio by Mass (A:B):	1:1
Solids Content:	33 – 36%

APPLICATION INSTRUCTIONS

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1. Combine 1 part (by mass) of Part A with 1 part of Part B
 2. Mix thoroughly until homogeneous and apply promptly (preferably within 2 hours)
 3. Once applied, transfer coated part to preheated oven within 5 minutes
 4. Recommended curing schedule: 80°C for 15 minutes, followed by 120°C for 1 hour

APPLICATION NOTES

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- Self healing is initiated by heating the film to a temperature of 60°C or greater
 - Healing response is faster at temperatures of 70°C and greater
 - Avoid extended exposure to temperatures in excess of 140°C
 - Depending on film thickness and curing conditions, hardness may continue to develop over a period of days to weeks

STORAGE & HANDLING

Precautions for Safe Handling

Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated breathing of vapor. Wash hands thoroughly after handling. Keep away from heat, sparks, flames and other sources of ignition.

Conditions for Safe Storage

PART A: Avoid contamination with incompatible materials. Keep away from heat, sparks, flames and other sources of ignition. Residual vapors might explode on ignition. Do not apply heat, cut, drill, and grind or weld on or near this container.

PART B: Keep container tightly sealed. Store at room temperature in a dry place. Keep away from sources of ignition. Protect from cold temperatures (< 60°F). Gelation as a result of low temperature exposure may be reversed by warming to ~100°F for several hours. Purge container with dry, inert gas after use.

Refer to SDS for complete information on the safe handling of this product.

ADDITIONAL INFORMATION

NEI Corporation believes that the information in this technical data sheet is an accurate description of the typical use of the product. However, NEI disclaims any liability for incidental or consequential damages, which may result from the use of their products that are beyond its control. Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy, and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual right.