DATA SHEET

MY-133-MC: Optical Coating Material

MY-133 MC is a Moisture Cured coating material, with a refractive index of 1.33. It is a reactive 100% solids material that cures upon exposure to ambient moisture.
The cured product is an inert polymer with a very low surface energy. It has non-stick properties and it repels many fluids. Its 1.33 index matches water, and therefore, it is used in various bio-photonic applications, such as SPR bio-sensors.

Properties

	Liquid state
RI liquid at 589 nm	1.328
Density, g/cm^3	1.59
Viscosity, cps @ 25°C	400
	Cured state
RI cured at 589 nm	1.330
RI cured at 950 nm	NA
Adhesion	Fair adhesion to glass, metals and plastics.
Appearance	Clear Colorless Soft Solid

The product is supplied pre-filtered to below 1 micron particles.

Storage

1. Avoid unnecessary exposure to moisture.
2. Long term storage should be at ambient conditions of 0-30ºC.
3. The coating is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 6 months.

Application

The material is intended to be coated by any common coating technique such as: spin coating; spraying; dipping; roll coating, etc. The material can be diluted. See relevant links in the Technical Support page in our website.
Be aware of the risk of gelation, if the material is left in an opened bottle.
Curing schedule:
20-60 min at ambient conditions (For 200 micron layers. Thicker layers take longer). High humidity accelerates the curing process. Gelation occurs within that time. Leave for overnight for final curing or place for one hour in an oven at 80-100°C.

Safety: Refer to the SDS.

Note: The above information is believed to be reliable, but it is not to be taken as a representation, warrantee or guarantee. Customers should perform their own QC, QA and evaluation tests.

Updated: November 19, 2019

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