

MONOSEAL 380 TECHNICAL DATA

SOLVENT - FREE EPOXY COATING

Solvent-free	High strength
Chemical resistant	Contains no carcinogens
Single Component	Contains low toxicity ingredients
Field-friendly	

<p>DESCRIPTION</p>	<p>MONOSEAL™ 380 laminating resin is designed for use with glass fiber, basalt fiber or carbon fiber fabrics. Its single component, easy to use epoxy resin creates high strength, chemical resistant laminates for reinforcement and leak sealing. Curing is achieved by heating to a temperature of 250⁰ F+, (121⁰ C), in some instances this is possible by simply applying to surface which are this hot in normal service. Continuous heat resistance is good to about 400⁰ F, (204⁰ C), after which the resin begins to lose significant strength.</p> <p>MONOSEAL™ 380 provides permanent protection under aggressive marine and industrial conditions. The formula is uniquely field-friendly and uses advanced low toxicity ingredients. The standard resin is clear, which cures to amber after exposure to a minimum of 121°C (250°F) + temperatures.</p>
<p>USES</p>	<p>LAMINATING RESIN: Use with fiberglass, basalt or graphite fibers.</p>
<p>APPEARANCE</p>	<p>COLORS Standard Clear FINISH Gloss</p>
<p>PHYSICAL PROPERTIES</p>	<p>VEHICLE TYPE Epoxy with latent curing agent PIGMENTATION None THINNER Not normally required CLEANER Lacquer thinner, MEK MIXING RATIO NA SOLIDS BY VOLUME 100% RECOMMENDED THICKNESS..... NA CURE SCHEDULE 4 hours at 266°F (130°C) INDUCTION TIME NA APPLICATION METHOD Roller, brush or spray SHELF LIFE 6 Months minimum VOC Essentially Zero FLASH POINT Over 200°F (93°C) STORAGE CONDITIONS Normal</p>

SOLVENT-FREE COATING FOR WET OR BRUTAL ENVIRONMENTS

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SURFACE PREPARATION	Steel is best prepared by air abrasive blasting to a "near-white", (SA2.5, SSPC-SP-10). Grinding or discing are acceptable provided they leave an aggressive surface profile. Mechanical wire brushing can be satisfactory however very often this method simply polishes corrosion and scale leaving an inadequate surface for the high strength laminate.
APPLICATION	<p>Pour the MONOSEAL 380 resin into a shallow trough and use this to saturate the desired fiber cloth. Remove excess resin and drape the cloth around pipes wrapping several layers.</p> <p>MONOSEAL 380 may be applied to hot surfaces at 121°C (250°F) and above up to 200°C (392°F), will begin to cure within minutes of application. Full curing will take place after several hours at elevated temperatures.</p>
SERVICE TEMPERATURE	Once cured MONOSEAL 380 may be used in service from well below normal ambient temperatures to a practical maximum of 400°F (204°C). Progressive weakening will occur above 400°F (204°C). Although full properties will be restored upon cooling, the system has not been tested above 450°F (232°C).
MANUFACTURED BY	Thin Film Technology, Inc of Houston, Texas, USA
TRANSPORTATION	Non-regulated by United States - Department of Transport (USDOT), International Air Transport Association (IATA) or International Maritime Organization (IMO)

SAFETY : This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

WARRANTY DISCLAIMER : The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. However, as we have no control over the use to which this information is put , no warranty, express or implied is intended or given. We assume no responsibility whatsoever for coverage, performance or damages, including injuries from use of this information or of products recommended herein.

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