Product Data Sheet

Armor-Mask™ - APE 200
Advanced Polymer Elastomers

ARMOR-MASK
ADVANCED POLYMER ELASTOMERS

Product Description: Armor-Mask™ - APE 200

Armor-Mask™ advanced polymer elastomers are formulated for spray application resulting in a thin maskant coating that provides a sealant barrier film.

Armor-Mask™ state-of-the-art coatings, maskants and sealants exhibit extraordinary performance characteristics in harsh environments, with an ability to withstand temperature extremes and resist attack from hundreds of corrosive chemicals and liquids.

Armor-Mask™ advanced polymer elastomers enables the quick application of a thin, chemically resistant, rubbery coating barrier. The formulation typically allows for fewer spray coats being required and provides resistance to corrosive liquids including hydrochloric acids, nitric acids, sulfuric acids; oil and fuel; hydrocarbons and chlorinated solvents. It exhibits robust performance in a broad temperature range of -30F degrees to +400F degrees – with excursions to 500F.

Coating - Industrial Applications

- Protective coating and maskant for equipment subjected to corrosive fluids and vapors.
- Protective coating and maskant for metal substrates subjected to high temperature airflow and chemical vapors.
- Composite mold tool vacuum sealant: aluminum, steel, invar, epoxy-based composites, bismaleimide (BMI) composites, and graphite or carbon-carbon composite.
- Coating and maskant can be used in jet engine maintenance and other aerospace environment applications with exposure to jet fuel and hydraulic fluids
- Acid-resistant coatings for industrial pumps and equipment housings.
- Top-coat for other elastomers to improve their chemical resistance (e.g., poly-urethane, poly-sulfide, nitrile, neoprene, butyl, natural, SBR, polyurethane).
- Provides sealant barrier to many substrates

Material Application

Surface/Substrate Preparation
Surfaces should be clean, dry and free of oils, waxes and is required for maximum adhesion. Metallic surfaces may require grit blasting & degreasing with an oil free solvent.

Material & Handling Preparation
If practical, keep material between 70°F-80°F. Shake & mix well before use (for at least 1 minute)

Spraying Conditions
Preferably spray apply in a vented, dust free environment.

Color Black

Drying
Material will dry quickly, caution with thick applications as solvent may become trapped beneath surface. If heating is to be used to final cure – all solvent must be gone first. Temperature will effect drying time, low temperature and thicker coats will increase the dry time. Allow solvent to evaporate between additional coats or blisters may result from trapped solvent. Material adheres very well to itself.

Curing & Post Cure (optional)
Thin coating will cure in approximately 24 – 48 hours at 75 F. Faster cures are possible by heating the coating but only after all solvent is gone (solvent-free coating) – heat to 300 F for 20 minutes to accelerate cure.

Cleanup
Acetone, MEK and MIBK may be used

Safety
Use in accordance with Safety Data Sheet (SDS)
FLAMMABLE LIQUID.

Storage & Shelf Life
Store containers at 75F (24 C) or below.
12 Months from Certification date

Typical Properties - Cured Film	
Tensile Strength (psi) ASTM D-2370	1,000
Elongation (%) ASTM D-2370	250
Operating Temperature	-30F to 400F *excursions to 500 F

Sold & Distributed by:
TECHNOLOGY MARKETING INC.
www.tmi-slc.com

Rev. July 2021