

DESCRIPTION

MDI PRIME is a convenient-to-apply, single component primer system. Designed as a standalone product for porous substrates, the VOC free, MDI PRIME is a moisture-cure MDI formulation which has low viscosity.

FEATURES & BENEFITS

- Easy to use
- Ability to be applied by phenolic resin core roller, brush or airless spray gun
- Excellent adhesion to steel, wood, concrete, FRP and many other surfaces
- Good flexibility – withstands mechanical stresses where the lining is subject to impact
- Low viscosity – easy to process
- Pigmented yellow for easy visual confirmation of application

CHEMICAL PROPERTIES
(For components)

	RESULT
Specific Gravity (grams/cc)	1.16
Viscosity, CPS at 77°F (25°C)	425 ± 50
Solids by Volume/Weight	100%
Volatile Organic Compounds	0 lbs/gal
Tack-free/solid (min)	35 @ 70°F (21°C), 50% RH
Recoat (hrs)	≤24
Shelf Life - Unopened Container	6 months
Color	Yellow

PHYSICAL PROPERTIES
(Cured Material)

	TEST	RESULT
Tensile Strength (psi)*	ASTM D-412	3300 ± 200
Tear Resistance (pli)* Die C	ASTM D-624	450 ± 50
Elongation (%)*	ASTM D-412	80 ± 5

PROCESS SPECIFICATIONS
Airless or Pump Spray

Pump
 Dispensing Gun
 Process Pressure

In order to spray, it is necessary to thin MDI PRIME (see mixing)

Graco Ultra 395 Airless Sprayer (or similar)
 Graco Contractor Gun (or similar)
 500 to 1,000 psi

Hand Process

Roller or Brush

Phenolic resin core roller, or bristle brush

PROCESS TEMPERATURES AND RELATIVE HUMIDITY

Component Temperature	70°F (21°C)
Substrate Temperature	>50°F (10°C) and ≥5°F (-15°C) above dew point
Humidity	≤50%

MIXING

Mix MDI PRIME base material with a mechanical mixer until a homogeneous mixture and color is obtained. MDI PRIME may be thinned with Acetone, MEK or Xylene from 20% up to 50% maximum. When using solvents all safety precautions must be observed as solvents are flammable.

APPLICATION GUIDE

MDI PRIME straight from the container is viscous and should be applied at a rate of 1.5 - 5 wet mils average thickness to obtain 1.5 - 5 mils dry film thickness. When thinning mix MDI PRIME and solvent in a container and then add to spray cup. Apply as uniform as possible at a rate of 3 -10 wet mils to obtain 1.5 - 5 dry mils if thinning is 50%. For rough or textured surfaces a fine nap roller may be more suitable. MDI PRIME cure is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time. Low temperature and/or low humidity extend the cure time. Surface must be maintained free of contaminants and dry during this period.

COVERAGE

Apply at rate of 300 - 500 square feet (28 - 46 square meters) per gallon (3.78 liters).

STORAGE

Store in a closed container between 70°F (21°C) to 90°F (32°C).

SUBSTRATES

Metals, wood, concrete, polyester fiberglass.

PACKAGING

MDI PRIME is available in 1 gallon (3.78 liter), 5 gallon (18.9 liter) and 55 gallon (208 liter) containers.

TECHNICAL SUPPORT

We have a dedicated technical support team offering knowledgeable support for everything from preventative maintenance, equipment calibration and servicing through to coating and foam application advice. If you have any questions regarding the use of this product please call us toll free at 1-800-901-0088 or email us info@pinnaclewest.net.

ON-SITE TRAINING

Our on-site training programs provide the necessary equipment and application training, including the health and safety aspects, needed to apply a wide variety of products. The goal of our programs are to give the skills required to be a professional and productive installer.

LIMITED WARRANTY

Pinnacle West Enterprises Inc. warrants its products to be free of manufacturing defects and that they will meet Pinnacle West Enterprises Inc. current published physical properties when properly installed according to Pinnacle West Enterprises Inc. guide specifications and product data sheets over a sound, properly prepared substrate. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Pinnacle West Enterprises Inc. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Pinnacle West Enterprises Inc. shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Pinnacle West Enterprises Inc. shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Pinnacle West Enterprises Inc. reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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