MAK CHEM
INTERNATIONAL

TOTAL PROTEK

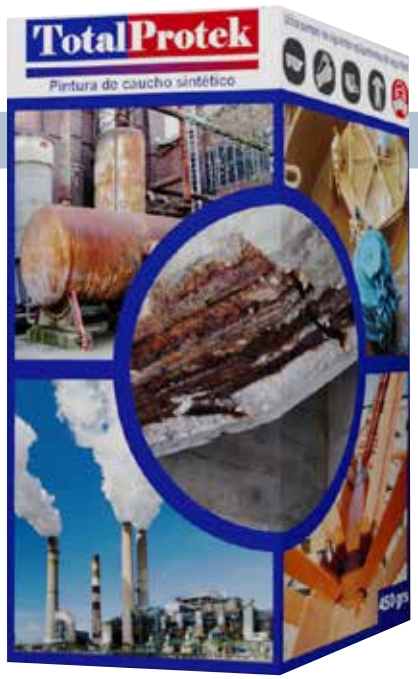
Synthetic Anti-Rust Membrane Kit

PRODUCT INFORMATION

TOTAL PROTEK is a quick-dry, clear and flexible synthetic rubber-based membrane that forms a protective coat on surfaces. Provides waterproof and rust protection against aggressive moisture and acid environments.

It is a compound with high mechanical resistance and great adhesion to all types of surfaces. Easy application by brush, roller or spray.

TOTAL PROTEK provides 10 years of protection against aggressive moisture and humidity.



Packaged in a 450g Kit.
Supplied in cases of 10 Kits.

Typical Applications

- Metal
- Wood
- Concrete
- Steel
- Plastics
- Painted surfaces

Typical Surface Coverage/Volume

Application Method:	Coverage:
Spray Gun:	14m^2
Roller:	12m^2
Brush:	8m^2

Beneficial Qualities

- Reduces Salt Corrosion, Rust & Wear
- Long Lasting Protection
- Reduces Maintenance Costs
- Protects Against Moisture
- Good Mechanical and Chemical Stability
- Easy Application
- Quick Drying

General Characteristics

TOTAL PROTEK has been designed to protect all types of surfaces against humidity, forming an elastic coating layer preventing the entrance of air or any kind of aggressive liquids. It is easy to apply and dries in minutes avoiding lost time in operation and maintenance.

Unlike a varnish **TOTAL PROTEK** will not crack, so can even be used on paper and card. It can be applied to painted and rusted surfaces and can withstand temperatures up to 90°C. Drinking water can be stored in containers painted with **TOTAL PROTEK**.

Once dry **TOTAL PROTEK** is dielectric.

Provides protection in extreme environments for all stationary equipment, reducing maintenance periods and equipment downtime.

Instructions for Use

APPLICATION SURFACES:
Metal, Wood, Concrete, Steel, Plastics, Paints and others. The area to be treated should be dry and clear of dust or grease. DOES NOT REQUIRE PREVIOUS TREATMENT.

MIX: Pour the catalyst into the resin container.
Mix thoroughly with the stir stick for at least 2 minutes to get a uniform blend.
IT IS NOT NECESSARY TO USE ANY ADDITIONAL DILUENT.

APPLY: Paint with brush, polyester roller or sprayer. Only requires 1 application of product to protect and seal the surface.

TIME: You ONLY have 1 hour to complete the application of the product. Once applied, wait until it is dry to the touch.

REMOVAL: Simply cut into the surface and peel off the layer.

Note/Safety Precautions

CATALYST: This component can react with moisture and cause the paint to become dull after its application. It is therefore VERY IMPORTANT that the surface is completely dry and the relative humidity does not exceed 65%.

Avoid breathing vapours. Use in well ventilated places. Avoid contact with skin or eyes, may cause irritation. It is recommended to use PPE, including rubber or nitrile gloves, safety glasses, mask with mixed filter, appropriate clothing and safety shoes.

Physical Properties/Characteristics

Specific Gravity	1.07 gr x cm3
Volume Solids	65 + 2%
Mixture Lifetime	40 minutes at 20 + 2°C. Higher temperature less lifetime
Storage Lifetime	A Compound = 6 months B Compound = 6 months
Storage	Keep TOTAL PROTEK in dry place, airy, with room temperature between 10°C and 25°C
Condition	Viscous Liquid
Presentation	Viscous Liquid at 22°C
Odour	Solvent
Colour	Clear to Amber
pH	Does not apply
Boiling Point	>200°C
Ignition Point	493°C
Flash Point	>130°C
Relative liquid density (Relative Density)	1.0 to 1.3 at 25°C
Solubility in water and organic solvents (mg/l)	Not soluble (reacts releasing CO2)
Vapour Pressure 20°C	0.03 mbar
Adhesion	Great on all surfaces
Density	1 to 2 ml

Typical Properties of TOTAL PROTEK	
% NCO	5.3 – 5.7
Viscosity Brookfield at 100°C poise	1.0 – 2.5
Specific Gravity	
77°F (25°C)	1.08
212°F (100°C)	1.02
Typical Process Conditions	
IMUTANIO 32-90A, °F (°C)	150 (66)
BDO, °F (°C)	240 (115)
Mold, °F (°C)	212 (100)
% Theoretical	90
Life cycle at extreme conditions	2 Years
Cure Time, min °F (°C)	60 at 212 (100)
Post-Cure, hrs. °F (°C)	16 at 158 (70)
Typical Physical Properties	
Shore Hardness	90A
Module 100%, psi (MPa)	1200 (8.3)
Module 300%, psi (MPa)	2200 (15.2)
Tensile Strength, psi (MPa)	3300 (22.8)
Elongation, %	375
Tear Strength, Die C, ppi (kN/m)	350 (61.3)
Tear Strength, (D470), ppi (kN/m)	: 70 (12.3)
Bashore Bounce %	: 30
Compression Set	
B Method	
22 hrs at 158°F (70°C), %	: 40
Specific Gravity	: 1.13

Product Manufactured in Chile.

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