



NANOBARRERA™
THERMAL COATINGS

www.nanobarrera.com.mx

TI20 REFLECTIVE

DESCRIPTION

A thermal insulation system (for both cold and heat), soundproofing, corrosion control, and waterproofing offers an advanced and versatile solution for industrial and commercial applications. It is designed to deliver high performance in terms of thermal insulation, noise reduction, corrosion protection, and water resistance. Suitable for any type of external surface.



FEATURES

- **Thermal Conductivity:** TI20 Reflective boasts exceptionally low thermal conductivity, ensuring high efficiency in thermal insulation and significantly reducing heat transfer.
- **Noise Reduction:** TI20 Reflective provides sound absorption, minimizing acoustic disturbances from resonance, impact, and sound conduction.
- **Corrosion Resistance:** TI20 Reflective offers effective protection against corrosion, acting as a protective barrier to prevent damage caused by corrosive agents, such as moisture, chemicals, and other environmental factors.
- **Waterproofing:** The product features high-performance waterproofing properties, preventing water leakages and shielding surfaces from moisture.
- **Mechanical Stability:** Thanks to its high molecular weight and excellent mechanical stability, the system ensures prolonged durability and resistance to deformations, guaranteeing reliable long-term performance.
- **Sustainability:** TI20 Reflective is eco-friendly, meeting the strictest sustainability standards, low in VOCs, and environmentally friendly.
- **Solar Reflectance:** It reflects solar radiation, reducing heat absorption and enhancing energy efficiency. This helps maintain cooler interior temperatures and protects the surface from potential damages caused by sun exposure.

T120 REFLECTIVE



PROPERTIES

The product is a water-soluble polymer that's semi-liquid in its wet state. It boasts high mechanical stability and is made up of a high molecular weight. It has been enhanced with antimicrobial activity, germ-fighting nanocomposites, and anti-fungal properties. Carefully integrated are aggregates with low thermal conductivity, ensuring the absence of thermal bridges. Additionally, this formulation is 100% environmentally friendly.



USES AND APPLICATIONS

For industrial, commercial, or residential construction, suitable for interiors or exteriors, wood, metal, concrete, plastered surfaces, brick, block, water-conducting pipes, etc. Apply in layers using a brush, bristle brush, roller, or airless equipment.



TECHNICAL SPECIFICATIONS

COLOR	Flat white
DENSITY	33.72 lbs/ft ³ (540 Kg/m ³)
MOISTURE ABSORPTION	0.5983% Volume
WATER VAPOR PERMEABILITY	15.49 perms.
THERMAL CONDUCTIVITY	0.07922 W/m.K.
THERMAL EMITTANCE	0.80
SOLAR REFLECTANCE INDEX (SRI)	106
SOLAR REFLECTANCE	0.853
VOC	< 0.4172 lb/gal
p.H.	7.0 to 9.0
COVERAGE RATE	0.0147 gal/ft ² to 0.0245 gal/ft ²
PACKAGE	5 gallon pail (19 liters)

PRECAUTIONS

- Do not add water



T120 REFLECTIVE



STORAGE AND SHELF LIFE

Shelf life of 6 months from manufacture date when properly stored in a warehouse between 41°F and 90°F



APPLICATION METHOD

SURFACE PREPARATION:

1. Sweep and pressure wash the surface.
2. Apply primer membrane.

APPLICATION METHODS:

1. Stir contents at low speed until well-mixed.
2. Apply in thin layers using a brush, roller, paintbrush, airless sprayer, or pneumatic spray equipment.
3. For concrete or cement roofs, it's recommended to lay a reinforcing membrane.

APPLICATION CONDITIONS:

Do not apply when rain is expected or under extreme temperatures.

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