



APPLICATION INSTRUCTIONS FOR THE NOVERA SYSTEMS

METAL SURFACES



This instruction provides basic guidelines for the application of thin-layer polymer coating systems with thermoreflective and thermal insulation properties. The systems are intended for use on exterior and interior metal surfaces such as roofs, walls, and metal containers.

The information in this document is based on the manufacturer's current knowledge and practical experience. Actual site conditions, substrate condition, weather, and workmanship can affect the final result and are beyond the manufacturer's control.

The contractor is responsible for checking that the substrate is suitable for application and for carrying out the work in accordance with this instruction, applicable regulations, and good construction practice.

The manufacturer reserves the right to make changes to products and application recommendations as part of ongoing system development.

GUIDE NAVIGATION

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1. GENERAL INFORMATION

This instruction defines the application rules for a thermo-reflective coating system intended for roofs made of steel, galvanized or factory-coated metal sheets.

The system consists of the following layers:

- **Novera PNT** - Primer coat
- **Novera REFLEX** - Top coat (thermo-reflective coating)

2. APPLICATION CONDITIONS

- The substrate must be **dry, clean, degreased and structurally sound**, free from corrosion, loose coatings, dust and contaminants.
- Substrate moisture must be within limits acceptable for coating systems.
- Application temperature (air and substrate): **from +5°C to +40°C**.
- The substrate temperature must be **at least 3°C above the dew point**.
- Do not apply during: precipitation, fog or high humidity, strong wind, intense direct sunlight.
- After application, the coating must be protected from rain and condensation for a minimum of 3-6 hours, depending on weather conditions.
- The presence of moisture, frost or condensation excludes application of the system.
- During application, appropriate protective clothing must be used in accordance with applicable occupational safety regulations, and when applying the top coat, the **use of protective or sunglasses** is recommended to reduce glare caused by the reflective surface.



3. SURFACE PREPARATION

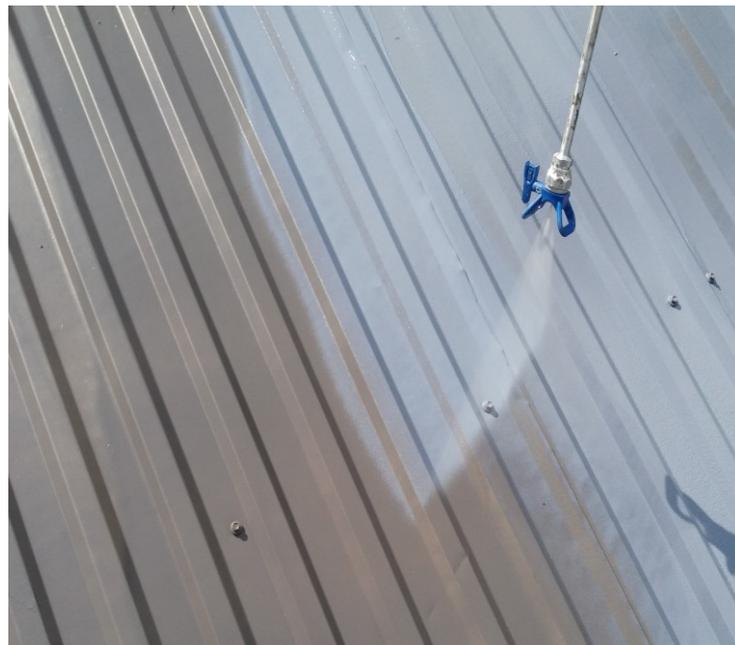
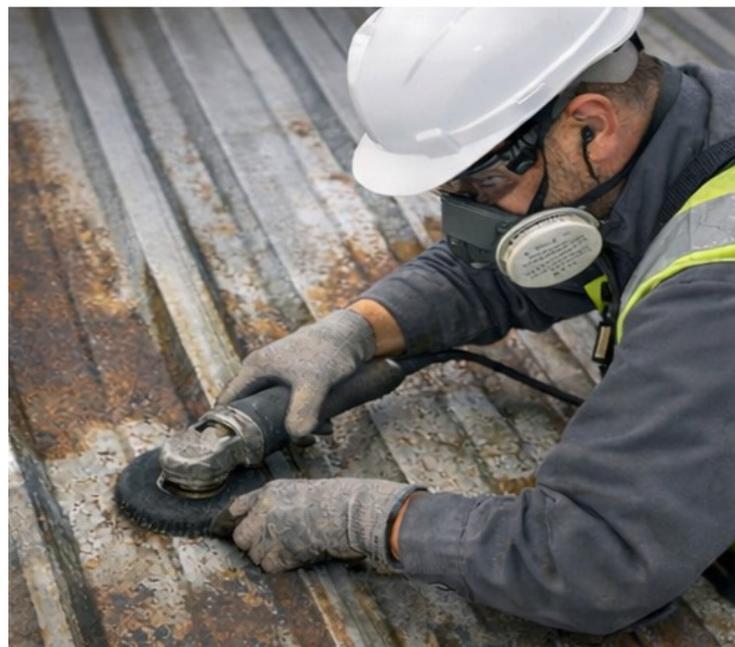
- **Clean the Surface:** Use a pressure washer to remove dust, dirt, loose particles, and old debris
- **Degrease:** Apply a degreasing agent such as CLEANER to remove oils, grease, and chemical residues.
- **Remove Rust and Loose Coatings:** Scrape, wire brush, or sand any rusted or flaking areas until clean, shiny metal is exposed. Apply an anti-corrosion primer if necessary.
- **Repair Damages:** Fill any holes, cracks, or dents with appropriate patching materials before coating.
- **Ensure Dryness:** Make sure the metal surface is completely dry before applying products.

4. APPLYING THE PRIMER LAYER (NOVERA PNT)

For metal substrates, it is recommended to use the NOVERA PNT primer, which ensures optimal adhesion for subsequent layers of the NOVERA REFLEX coating. Before use, the product should be thoroughly mixed, preferably with a paint and resin mixer, as shown in the illustration, to achieve a uniform consistency.

The primer can be applied using a roller, brush, or airless spray, ensuring even coverage across the entire metal surface. On most surfaces, one thin coat is sufficient, and the next layer should only be applied after the previous coat has fully dried.

During application, the primer should be spread evenly, avoiding puddles or excessive accumulation of material in any area. The primer usually becomes surface-dry within 1-3 hours, depending on temperature and the properties of the metal, and is ready for the next layer after 4-24 hours.



5. APPLYING THE TOP COAT LAYER (NOVERA REFLEX)

Before use, thoroughly mix NOVERA REFLEX. It is recommended to use a paddle mixer suitable for paints and resins, as shown in the illustration.

After full curing of the NOVERA PNT primer layer, apply the NOVERA REFLEX top coat. Application may be carried out year-round, provided the substrate is completely dry. Do not apply under conditions of frost, moisture, or precipitation.

Test patch - apply a small area of the coating to check adhesion, coverage, and appearance.

NOVERA REFLEX may be applied by airless spraying, rolling, or brushing. For spray application, use equipment capable of delivering a minimum working pressure of 200 bar at the spray tip and a flow rate of at least 3.0 liters per minute. Clean all tools and equipment with water before the material cures.

Apply along the slope of the roof to allow excess material to run off easily and to avoid streaks or drips. Avoid applying too thick a layer in a single pass - it is better to apply several thin coats than one thick coat. Maintain the open time between coats (allowing the previous layer to set but not fully cure). For spray application, pay attention to the distance between the spray tip and the substrate (typically 30-50 cm) and ensure even movement.

To achieve the required minimum dry film thickness of 1 mm, apply the product in two coats, with an approximate consumption of 0.8 kg/m² per coat. Apply the second coat only after the previous layer has sufficiently set.

After application, protect the coating from rain or other precipitation for a minimum of 3-6 hours.

This instruction provides the complete procedure for the preparation and application of the NOVERA REFLEX system. Following these steps ensures proper adhesion, performance, and durability of the coating.



NOVERA INTERIER

APPLICATION INSTRUCTION THERMOREFLECTIVE SYSTEM FOR METAL CEILINGS AND WALLS

1. GENERAL INFORMATION

This instruction defines the application rules for an interior thermo-insulating and anti-condensation coating system intended for metal surfaces such as steel, galvanized, or factory-coated metal ceilings and walls inside buildings.

The system consists of the following layers:

- **Novera PNT** - Primer coat
- **Novera INTERIER** - Top coat (thermo-insulating, anti-condensation coating)

2. SURFACE PREPARATION

The metal substrate must be clean, dry, and structurally sound. Remove dust, dirt, grease, oils, and any loose or flaking material. It is recommended to wash the surface using appropriate cleaning agents or specialized detergents designed for metal substrates, followed by thorough rinsing and drying. All signs of corrosion or biological contamination must be removed. Any damage, uneven areas, or cracks should be repaired using materials appropriate for the type of substrate. All repaired areas must be completely dry and properly cured. Surfaces not intended for coating

3. APPLYING THE PRIMER LAYER (NOVERA PNT)

The product is ready for use. Do not dilute with water or mix with other materials. Before application, thoroughly mix the contents of the container using a mechanical mixer until a homogeneous consistency is achieved. The primer can be applied using a roller, brush, or airless spray, ensuring even coverage over the entire metal surface. On most surfaces, one thin coat is sufficient. Any subsequent layer should be applied only after the previous coat has fully dried.





3. APPLYING THE TOP COAT LAYER (NOVERA INTERIER)

The Product is ready for use. Do not dilute with water or mix with other materials. Before application, thoroughly mix the contents of the container using a mechanical mixer until a homogeneous consistency is obtained. The coating can be applied using: airless spray, roller, brush (for small or hard-to-reach areas).

For best coverage, improved adhesion, and surface leveling, the use of the “spray + back roll” method is recommended. Apply the material in one direction only. Do not use crosswise movements.

4. NOTES

- Two layers provide effective thermal insulation and protection against water vapor condensation.
- Interval between layers: minimum 4–6 hours.
- When applying with a brush, three coats are recommended.
- Air and substrate temperature: minimum +5°C, optimum 20–25°C.
- Do not apply at relative humidity above 80%.
- Avoid application on cold surfaces where condensation may occur.
- Ensure room ventilation during application and drying, avoiding drafts that may cause excessively fast drying.
- The use of protective gloves and work clothing is recommended.
- After completion, clean tools with water; in the case of spray application, thoroughly flush the entire system with water.

This instruction provides the complete procedure for the preparation and application of the NOVERA INTERIER system. Following these steps ensures proper adhesion, performance, and durability of the coating.