

COMPANY

NANVERA Advanced Materials

PRODUCT CODE (SKU)

KL-016 — NAN-VE Metal Guard

REVISION DATE

May 2026 / Rev. 01

1. Product Description

Description: An advanced, high-density polymer-type primer engineered as an anti-oxidation and anti-corrosion matrix. It provides an ultra-dense chemical shield that fully prevents moisture and oxygen from penetrating metal surfaces, stopping corrosive reactions at their source.

2. Recommended Uses

Applications: The primary structural primer for protecting iron, steel, and metal structures. It performs a dual role as a corrosion inhibitor and a moisture waterproofing barrier in harsh industrial environments. It is the ideal structural base before applying finishing coats (such as NAN-VE Top Guard) or other protection systems.

4. Performance Data

Required Thickness: Engineered to achieve a dry film thickness (DFT) of 150 microns in a single coat, ensuring complete structural protection for steel.

Environmental Resistance: Superior mechanical and chemical resistance to moisture and water, making it an integrated waterproofing agent in its own right.

Adhesion Strength: Strong chemical bonding to metals, preventing the spread of under-film corrosion.

Drying Time: Dust-dry in 60 minutes; recoat time 3 hours; full cure 4-7 days (depending on temperature).

5. Application Instructions

Surface Preparation: Loose rust and mill scale must be completely removed by mechanical sanding or sandblasting. The surface must be free of grease and oil to ensure adhesion.

Recommended Number of Coats: Typically one dense coat (150 microns) is sufficient to achieve full sealing and complete corrosion prevention.

Application Method: Due to its heavy body and high density, application by Airless Spray Compressor is strongly recommended to evenly achieve the 150-micron thickness.

6. Packaging & Storage

Packaging: 18 kg buckets.

Storage: Store in a dry place away from direct sunlight at room temperature with the lid tightly closed.

Shelf life: 12 months.

7. Standards & Testing

Standards: Engineered to exceed the requirements of standard anti-corrosion primers, preparing the surface to receive fireproofing systems or high-performance finishing coats.

Basic Technical & Physical Properties

Property	Value
Color and Finish	Red, matte
Chemical Base	Heavy anti-oxidation polymeric matrix
Density	1.4 g/cm ³
Solid Content	65%
Volatile Content	35%