

MANUFACTURER	PRODUCT CODE (SKU)	REVISION DATE
NANVERA Advanced Materials	KC-017 — NANVARNISH	September 2026 / Rev. 01

1. Product Description and Primary Use

NANVARNISH is a transparent, glossy, elastomeric varnish based on natural rubber for interior and exterior finishing, protecting wood and various surfaces from weathering, sun, water, and carbonation. It highlights the natural texture of wood and can be tinted, including in metallic shades.

2. Chemical Basis and Composition

Natural rubber modified with Nano Rubber TECH technology, water-based.

4. Application Method and Consumption Rate

Surface preparation: apply to a dry, clean surface. For metals, apply immediately after cleaning/sandblasting, without primer.
Tools: brush, roller, or air spray. Dilution: not required.
Recommended system: two perpendicular coats with a total thickness of at least 100 microns (WFT).

5. Packaging, Storage and Shelf Life

Packaging: 5 kg buckets.
Storage: store in a dry place, away from sunlight, at room temperature, with the container tightly sealed.
Shelf life: 12 months from the date of manufacture.

6. HSE Data (Safety Data)

Classification: non-toxic volatile substances, environmentally friendly, non-flammable in liquid (water-based) state.
PPE: gloves, safety glasses, respirator/mask; ensure good ventilation; keep the container tightly closed after use.

7. Standards and Test Methods

ASTM D412, ASTM D2370, ASTM D5149, ASTM D4587, EN 1062-3.

Technical and Physical Properties

Property	Value	Test Method
Color	Transparent (tintable)	Visual
Gloss	Glossy	Visual
Density	1.1 g/cm ³	ASTM D1475*

Property	Value	Test Method
Solids Content	72%	ASTM D1644*
Volatile Content	28%	EPA Method 24*
Dry Film to Wet Film Ratio (DFT/WFT)	≈ 60%	Calculated*
Elongation at Break	300%	ASTM D412*
Adhesion to Concrete	2.4 MPa (B5)	ASTM D4541*
Heat Resistance	Up to 160°C	Internal Method*
Chemical Resistance	Resistant to 10% acids and 20% alkalis	Internal Method*
UV Resistance	Passed (312 nm / 300 h)	ASTM D4587*
Bacteria & Carbonation Resistance	Passed	Internal Method*
Dust-Dry Time	45 minutes (at 25°C)	ASTM D1640*
Hard-Dry Time	120 minutes (at 25°C)	ASTM D1640*
Full Cure	≥ 48 hours	ASTM D1640*
Theoretical Spreading Rate	12 m ² /kg at WFT 100 microns	Calculated*

Engineering Note

The values in this document are based on data from the family of similar products (KL/KC) and represent a sound engineering estimate where no direct test protocol exists for this specific SKU. Batch confirmation is required before use as official laboratory data in documents distributed to contractors.