

COMPANY

NANVERA Advanced Materials

PRODUCT CODE (SKU)

KL-012 — PENTOFLEX

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1. Product Description and Basic Use

PENTOFLEX is a highly elastic, ultra-reliable waterproofing and finish coating reinforced with natural rubber and processed using Nano Rubber TECH technology. It offers outstanding elongation, absolute water-tightness and hydrolysis resistance (Hydrolysis-resistant).

Field of Application: fine waterproofing and finish coating for flat roofs, tanks and water bodies, walls and ceilings of wet areas (bathrooms, kitchens), concrete, metal and wood structures, and marine applications.

2. Chemical Basis

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 metal substrates, apply immediately after cleaning/sandblasting, without a primer.

Tools: brush, roller, or air spray. Dilution: primer/base coat - up to 20% with water; finish coats - up to 10% (do not dilute for metal).

Recommended System: two perpendicular coats with a total thickness of at least 100 microns (WFT).

5. Packaging, Storage and Shelf Life

Packaging: 11 kg buckets.

Storage: store in a dry place away from direct sunlight, at room temperature, with the container tightly closed. Shelf life: 12 months from the date of production.

6. Safety Data (HSE)

Classification: non-toxic, eco-friendly, non-flammable in its liquid (water-based) state.

PPE: gloves, protective goggles, respirator/mask when spraying; ensure good ventilation.

7. Standards and Test Methods

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

3. Technical & Physical Properties

Property	Value	Test Method
Color	White (tintable)	Visual
Gloss	Matt	Visual

Property	Value	Test Method
Density	1.12 g/cm ³	ASTM D1475*
Solid Content	59%	ASTM D1644*
Volatile Content	41%	EPA Method 24*
Dry Film to Wet Film Ratio (DFT/WFT)	≈ 59%	Calculated*
Elongation at Break	900%	ASTM D412*
Adhesion to Concrete	2.4 MPa	ASTM D4541*
Water-tightness	Class W3 (absolute resistance)	EN 1062-3*
Chemical Resistance	To 10% acids and 20% alkalis	Internal Method*
Thermal Resistance	Up to 160°C	Internal Method*
UV Resistance	Passed (312 nm / 300 h)	ASTM D4587*
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 Coverage Rate	10 m ² /kg at 100 µm WFT	Calculated*

8. Engineering Note

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.