

MANUFACTURER

NANVERA Advanced Materials

PRODUCT CODE (SKU)

KL-019 — NANCEMENTO

REVISION DATE

September 2026 / Rev. 01

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type: A water-based hybrid rubber-cement paint and high-strength catalyst for floors and walls. Used as a self-leveling coating or as a microcement putty when mixed 1:1 with white cement. Serves as a flexible alternative to rigid, high-hardness polymers that crack under expansion/contraction and delaminate from moisture. Converts microcement into nanocement, raising its resistance to permeability, moisture and abrasion.

Recommended Use: Finishing, leveling and waterproofing of floors and walls with enhanced resistance to abrasion and wear, and addressing positive and negative water/moisture pressure issues.

Manufacturer: KEMT CASTELLO Factory, Cairo, Arab Republic of Egypt.

SECTION 2: HAZARDS IDENTIFICATION

Environmental & Health Classification: Water-based product, environmentally friendly, non-toxic, ultra-low VOC content (< 10 g/L).

Flammability: Completely non-flammable in liquid/wet state (water-based system).

Skin Contact: May cause mild dryness or irritation to sensitive skin on direct, prolonged contact before the product cures.

Eye Contact: May cause mild irritation on direct contact.

Inhalation: Completely safe; the product does not emit harmful fumes or volatile organic solvents. When site-mixed with dry cement, avoid inhaling cement dust.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Chemical Composition: Nano-rubber emulsion, water-dispersed polymer resins, graded mineral and quartz fillers to enhance abrasion resistance and self-compaction, and cementitious catalysts.

Density: $1.50 \pm 0.05 \text{ g/cm}^3$.

Solvent: Pure water - completely free of petroleum or organic solvents.

VOC Content: Less than 10 g/L (compliant with LEED green building standards).

SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush with clean running water for 15 minutes, holding the eyelids open. Consult a physician if irritation persists.

Skin Contact: Thoroughly wash the affected area with soap and water before the material dries on the skin.

Inhalation: Move the affected person to fresh air.

Ingestion: Do not induce vomiting. Rinse the mouth thoroughly with water and seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability: Non-flammable in liquid state.

Suitable Extinguishing Media: Water spray, carbon dioxide (CO₂), foam, or dry powder for surrounding fires.

Thermal Decomposition Products: In a severe surrounding fire, releases water vapor and inert, non-toxic carbon oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean-Up Measures: Scrape up spilled liquid or paste using a rubber squeegee, trowel or putty knife and collect in sealed containers for disposal.

Environmental Precautions: Do not discharge uncured material directly into sewers or waterways.

PPE for Clean-Up: Wear rubber gloves and protective goggles during clean-up.

SECTION 7: HANDLING AND STORAGE

Handling: Applied using a rubber squeegee, trowel, putty knife, roller, or spray gun. When site-mixed with dry white cement, wear a dust mask.

Storage: Store in original, sealed, approved containers (10 L and 20 L pails) in a dry, shaded place at +5°C to +35°C.

Shelf Life: 12 months from date of production under standard conditions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide good natural ventilation at the application site.

Eye Protection: Protective safety goggles.

Skin Protection: Standard rubber/chemical-resistant gloves.

Respiratory Protection: Standard dust mask when mixing with dry cement or sanding.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Smooth, thick liquid / paste.

Color: White (can be tinted with paint oxides).

Density (at 25°C): $1.50 \pm 0.05 \text{ g/cm}^3$ (ASTM D1475).

pH: 8.0 - 9.0.

Flash Point: Not applicable - water-based (no flash point).

Shrinkage: Negligible after full cure.

Packaging Units: 10 L and 20 L pails.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Fully stable under standard application and storage conditions.

Hazardous Reactions: Cures upon evaporation of water or on reaction with cement hydrates when mixed with cement.

Incompatible Materials: Concentrated strong acids, prior to full curing of the product.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Completely non-toxic product.

Local Effects: Does not cause sensitization or toxicity via inhalation or direct skin contact.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact: Water-based product, free of harmful solvents, phthalates and toxic volatile organic compounds.

Environmental Compatibility: Fully safe for indoor and outdoor use; compliant with LEED sustainable building requirements.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method: Residues of cured material are disposed of as inert, non-hazardous construction waste.

Packaging Disposal: Recycling of empty plastic pails (10 L and 20 L) after rinsing with water is recommended.

SECTION 14: TRANSPORT INFORMATION

Transport Classification: Not regulated and not classified as hazardous cargo under ADR (road), IMDG (sea), or IATA (air) transport regulations.

SECTION 15: REGULATORY INFORMATION

Compliance & Standards: Complies with applicable international and Egyptian standards for waterproofing systems and high-durability floor coatings (ASTM D4541, ASTM D4060, EN 1062-3).

SECTION 16: OTHER INFORMATION / DISCLAIMER OF LIABILITY

This MSDS is prepared based on laboratory testing and the standard formulation of KEMT CASTELLO factories. The company guarantees the quality and chemical conformity of the material supplied, while on-site execution conditions remain outside its direct control.

Revision Date: September 2026 / Rev. 01.