

## TECHNICAL DATA SHEET

### **MANTI Ceramic Architectural Medium Density heat protective thin-layer coating**

**Composition:** Water-based dispersion binders, pigments, vacuum ceramic spheres, fillers and other additives, preservatives

**Color range:** white, pastel colors

**Packaging:** 20 liters

**General properties:** The MANTI Ceramic Architectural Medium Density heat protective thin-layer coating water-based, solvent-free, paint-like, thin-layer, stable coating containing microscale vacuum ceramic spheres. Coated surface formation significantly reduces the heat load against sunlight, mainly due to its reflective and infrared emission capabilities.

Breathable and vapor-permeable, water-repellent, uniform decorative aesthetic coating, provides excellent adhesion to various surfaces, promotes natural ventilation of the building, moderates thermal bridges, thereby reducing the possibility of mold formation. When applied in a thin layer, heating and cooling costs can be reduced while comfort is improved. It is an environmentally friendly product and does not generate hazardous waste.

**Applications:** Residential, public and industrial buildings (halls), monuments and livestock and crop production buildings made of natural stone, concrete, brick wall, gypsum and cement plaster, wood, primed metal, plastic, etc. surfaces.

#### **Quality characteristics:**

|                                |  |
|--------------------------------|--|
| Appearance:                    | easy-to-mix white dispersion                     |
| pH value:                      | 9,0 – 9,5  |
| Density (at 20°C):             | 0,7 – 0,8 g/cm <sup>3</sup>                      |
| Drying time (at 23°C):         |  |
| Degree 1:                      | max. 2 hours *                                   |
| Degree 5:                      | max. 24 hours *                                  |
| Appearance of coated surface:: | crack-free, decorative coating with matt surface |
| Recoatability (at 23°C):       | min. 4 hours                                     |
| Coverage:                      | 1,1 – 1,3 m <sup>2</sup> /liter                  |
| Recommended number of layers:  | min. 3 layers                                    |

\* Drying time can be extended by several hours due to the high humidity of the application environment!

**This product has a solar reflectance index (SRI) of 105**

**Storage, shelf life:** Store in unopened packaging at a temperature between +5 and + 40°C in a well-ventilated, cool, dry place. Avoid heat, direct sunlight. Frost hazard! In case of unopened packaging, the manufacturer guarantees a shelf life of 2 years from the date of manufacture.

**Preparation of the substrate:** The substrate must be dry, dust-free, absorbent, clean, free of oil, grease and other impurities. Inspect the substrate, clean it if necessary, remove loose, snarling layers with a brush, spatula and sanding. Larger surface recesses or cracks should be removed by plastering and patching in several layers. After drying, fix any gluing or patching defects by sanding or repainting and patching.

Different absorbent portions of the surface can cause stains after application, so priming the surface with a solvent-free air and vapor-permeable MANTI Primer fix concentrate is required to even out the absorbency.

**Product preparation:** The contents of the bucket should be thoroughly mixed until a completely homogeneous dispersion is obtained. The mixing time is usually 2-3 minutes, depending on the mixer power and speed. Make sure that no air bubbles are formed in the product during mixing. If air bubbles are formed, reduce the speed of the mixer. The product may be diluted with up to 2% deionized or distilled water as required.

**Use of the product:** Apply the product with special air-less spray equipment in several layers until the desired final layer thickness is achieved (recommended spray machine: Graco UltraMax II 1095, Titan PowRTwin PLUS DI 6900). For optimum heat protection, the material should be applied with a final dry film thickness of 1 to 1.5 mm, which requires at least 3 coats. The drying time of each coat is usually 4 hours, depending on the substrate and the weather. Do not work in very windy, rainy or humid weather or in hot sunshine! Brushes, paint rollers can be used for subsequent coating repairs.

**Cleaning of tools after immediate use:** with water

**Hazard classification:** Not hazardous for health and the environment. Wear personal protective equipment as specified in the safety data sheet.

**EU limit value for this product (A / c):** 40 g/l (2010).  
This product contains maximum 40 g/l VOC.

|  |               |   |
|--|---------------|---|
| <b><u>Supplemental label elements:</u></b> | <b>EUH208</b> | Contains of reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one 3:1 ratio. May produce an allergic reaction. |
|  | <b>EUH210</b> | Safety data sheet available on request.   |
|  | <b>EUH211</b> | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  |

**Safety instructions:** Not flammable! Frost hazard!

**Date of manufacturing:** Indicated on the packaging.

**Quality assurance and testing:** The first type test classification of the product was performed by the KERMI Department of the Central Laboratory of ÉMI TÜV SÜD Kft. according to the standard MSZ EN 15824: 2009. Protocol No.: R-1274859-M.

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