

TECHNICAL DATA SHEET

MANTI Ceramic Technological M pore closed heat protective 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: MANTI Ceramic Technological M pore closed heat protective coating is 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.

It has a waterproofing effect, uniform decorative aesthetic coating, provides excellent adhesion to various surfaces, moderates thermal bridges, thereby reducing the possibility of mold and algal 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: Thermal protective coating for the waterproofing system of roofs, for their thermal insulation. It can also be used for natural stones, concretes, brick walls, gypsum and cement plasters, wood, PVC, plastic, sintered metal sheet, etc. surfaces.

Quality characteristics:

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

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

The solar reflectance index (SRI) of this coating is 106

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, clean, free of oil, grease and other impurities. Inspect the substrate, clean it if necessary, remove loose, snarling layers. When applied to carbon steel surfaces, it requires an anti-corrosion primer.

Product preparation: The contents of the bucket should be thoroughly mixed at low speed (max. 200 RPM) with paint mixer 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: The coating requires special, high-pressure "airless" spray equipment. The coating should be applied in several layers until the desired final layer thickness (0.6 - 1.0 mm) is reached. Recommended spray machine: Graco UltraMax II 1095, Titan PowrTwin PLUS DI 6900. Recommended spray pressure: 120 - 140 bar, with nozzles 517, 519, 621, 625. A short-haired paint roller or brush can be used to repair the coating afterwards.

Prior to application, ensure that there is at least 48 hours of rain-free (and preferably windless) time for the coating to dry within the prescribed time. The temperature of the surface to be coated must not be lower than + 5°C and the relative humidity of the air must not be higher than 80 %. 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 / i): 140 g/l (2010). This product contains maximum 140 g/l VOC.

Precautionary statements:

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with all local, national and international regulations.

Supplemental label elements:

EUH208	Contains of 2-oktil-2H-izotiazol-3-on, 1,2-Benzizotiazol-3 (2H)-on, terbutryn, zink-pyrithione and 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. This product contains of biocide with fungicidal and algal killing properties. Active ingredients: 2-oktil-2H-izotiazol-3-on, 1,2-Benzizotiazol-3 (2H)-on, terbutryn, zink-pyrithione. Water left over from the cleaning of work equipment must not be discharged into groundwater or surface water.
EUH210	Safety data sheet available on request.
EUH211	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 technical specification ETAG 005.

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