



SINTECNO®

Since 1978



TECHNICAL DATA SHEET

SINMAST RM 22

PRODUCT DESCRIPTION

SINMAST RM 22 is a two component solvent free colored epoxy coating

ADVANTAGES

- Strong bonding to the substrate
- High abrasion resistance
- Excellent chemical inactivity against other materials (acids, alkalis, salts, organic or mineral lubricants and oils, naphtha, gasoline, liquid fuels)
- Excellent resistance to fresh or sea water, salt solutions, acid and alkali solutions
- Surfaces easy to clean and disinfect
- Good hardness and excellent mechanical strength
- Applicable under temperature conditions ranging from +8° C to + 110° C and relative humidity up to 90%
- Operating temperature until + 70° C (at 70° C maximum for 5 days)
- All RAL colors available
- Solvent free
- Gloss finish
- Slip resistant surface possible
- Easy application

FIELDS OF APPLICATION – USES

- Swimming pools
- Potable water tanks
- Coating for surfaces sunken into fresh or sea water
- Warehouses
- Laboratories
- Garages
- Car workshops, etc.
- Protection against corrosion of building constructions and floors in various industries (chemical, galvanization, beverages, pharmaceutical)
- Protection of masonry subject to frequent washing and chemical disinfection and attacked by exhaust gases, water vapors and splashes, in chemical, pharmaceutical industries)
- Internal protective lining to gas tubes and pipelines
- Coating for concrete floors in chemical, pharmaceutical, food and beverages industries
- Protective coating for cement against corrosion

PRODUCTS



ADVANCED SYSTEMS & SOLUTIONS FOR THE REPAIR –REINFORCEMENT- PROTECTION OF CONCRETE AND OTHER STRUCTURES

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PRODUCT INFORMATION – PHYSICAL PROPERTIES

Chemical base	2-component epoxy resin
Form	Liquid
Mixing ratio (A+B)	79:21
Color	
Part A (Resin)	Colored
Part B (Hardener)	Transparent
Density (A+B) (ISO 2811)	~ 1,35 kg/l.
Pot life (at 22° C)	40 minutes
Solid content (ISO 3251)	98%
Volatile organic compounds (ISO 11890-1)	90,5 g/l.

SINMAST RM 22 COMPLIES WITH THE EUROPEAN DIRECTIVE (DECOPAINT 2004 / 42 EC IN WHICH THE MAXIMUM ALLOWED CONTENT FOR VOC IS 500 g/l.

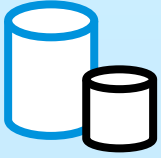
SINMAST RM 22 COMPLIES WITH LEED REQUIREMENTS IN WHICH THE VOLATILE CARBON COMPOUND CONTENT SHOULD BE < 100 g/l.

MECHANICAL PROPERTIES

SINMAST RM 22 MEETS ALL THE REQUIREMENTS ACCORDING TO EN 1504 – 2 : 2004

Hardness (according to SHORE D)	78
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Performance characteristics	Test method described in	Requirements	Result
Abrasion resistance (Taber test)	EN ISO 5470-1	Weight loss less than 3000 mg abrading wheel H22/rotation 1000 cycles/load 1000 g	420 (pass)
Capillary absorption and permeability to water	EN ISO 1062-3	$w < 0.1 \text{ kg/m}^2\text{h}^{0.5}$	0.016 (pass)
Impact resistance measured on coated concrete samples MC (0.40) according to EN 1766	EN ISO 6272-1	After loading n cracks and delamination Class I $\geq 4 \text{ Nm}$ Class II $\geq 10 \text{ Nm}$ Class III $\geq 20 \text{ Nm}$	36 Nm (pass – Class III)



PRODUCTS

Impact resistance measured on coated concrete samples MC (0,40) according to EN 1766	EN 1542	After loading n cracks and delamination Class I ≥ 4 Nm Class II ≥ 10 Nm Class III ≥ 20 Nm	2,35 N/mm ² (pass – rigid systems with trafficking)
Tensile bond strength	EN 1542	≥ 2 Mpa for rigid systems with traffic	2,35 Mpa
		≥ 1 Mpa for rigid systems without traffic	

USE DIRECTIONS

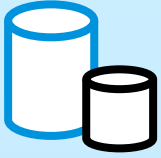
Temperatures during application	+8° C min. / +38° C max.		
Dew point	Temperature of substrate during application shall be at least 3° C above dew point		
Substrate	Moisture of substrate	$\leq 4\%$	
	Concrete quality	$\geq C 20/25$	
	Cement screed quality	Cement content 350 kg/m ³	
Mixing	Mechanically mix with a low revolution mixer (300 rpm) for at least 5 minutes. You should always keep the predetermined mixing proportions.		

The substrate in general must be clean, dry and free from grease, oil, fat or any other factors that could prevent maximum bonding. The substrate should be at least 28 days old.

SUBSTRATE PREPAIR

Depending on the nature of the substrate, it likely should be prepared by sand blasting, water blasting, grinding etc. Then, the surface should be cleaned from dust using a professional vacuum cleaner. Imperfections in the substrate such as cracks, holes etc. should be treated with SINMAST EPOXY SYSTEMS.

Steel surfaces should be derusted properly (Sa 2 ½ / SIS).



PRIMING AND APPLICATION

Cementitious surfaces must be primed with SINMAST S 2 with a consumption 200-300 gr/m² prior to the application of SINMAST RM 22 (other types of primer also available depending on nature of substrate and temperature conditions).

The first layer of SINMAST RM 22 application should be applied on primer not earlier than 6 hours after, but not later than 24 hours. In case, SINMAST RM 22, for some reason will be applied beyond 24 hours after priming, quartz sand should be spread at the surface of the primer while the layer of the primer is still fresh. After hardening of the primer all excessive sand should be removed using a professional vacuum cleaner. The same should also happen with the second layer of SINMAST RM 22, it should not be applied beyond 24 hours after the first layer of SINMAST RM 22.

Slip resistant surface : One layer of SINMAST RM 22 is applied on the primer as described above and while the layer is still fresh, you spread quartz sand (3-5 kg/m²) with a particle size depending on the desired degree of antislipping effect. After hardening of SINMAST RM 22 all excessive sand must be removed using a professional vacuum cleaner. Finally, a top coat layer of SINMAST RM 22 is applied.

THEORETICAL CONSUMPTION RATE : ~500 gr/m²
(for 2 layers – 300 µm dry film)

Tools	Brush, trowel, roller, airless gun (for application with paint or airless gun, the pressure should be at 180 bar with 0.015" – 0.021 " nozzles).
Cleaning of tools	Clean all tools with MEXYL before the hardening of material. Cured material can be removed only by mechanical means.
Packaging	3, 10 & 20 kg / A+B
Shelf life	At least 18 months from the production date supposed that material is sealed and stored in areas protected from direct sun exposure, humidity.
Safety information	The use of this product is subject to safety precautions regarding epoxy resins and organic amines. Users shall always refer to most recent material safety data sheet (MSDS)