PRODUCTS

SINTECNO®

Since 1978

TECHNICAL DATA SHEET

SINROC/22 FLOORING

PRODUCT DESCRIPTION

3-component self-leveling solvent free colored epoxy flooring system

ADVANTAGES

- High mechanical resistance
- High abrasion resistance
- Strong bonding to the substrate
- Jointless
- All RAL colors available
- Solvent free
- Easy cleaned and maintained
- Slip resistant surface possible

FIELDS OF APPLICATION – USES

- Warehouses
- Industrial areas
- Garages
- Stores
- Car workshops
- Hangars
- Areas with heavy traffic

PRODUCT INFORMATION – PHYSICAL PROPERTIES

Chemical base	2-component epoxy resin
	3-comp. in combination with quartz sand
Form	Slightly viscous liquid
Mixing ratio (A+B)	70:30
Color	
Part A (Resin)	Colored
Part B (Hardener)	Transparent
Density (A+B)	1,2 Kg/lt.
Pot life (at 22° C)	40 minutes

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

SINROC / 22 MEETS ALL THE REQUIREMENTS ACCORDING TO EN 1504 – 2 : 2004

Hardness (according to SHORE D)	80

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	270 (pass)
Capillary absorption and permeability to water	EN ISO 1062-3	$w < 0.1\ kg/m^2h^{0,5}$	0.029 (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 ≥ 4 Nm Class II ≥ 10 Nm Class III ≥ 20 Nm	22 Nm (pass – Class III)
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	$2,66\ N/mm^2$ (pass – rigid systems with trafficking)
Tensile bond strength	EN 1542	≥ 2 Mpa for rigid systems with traffic ≥ 1 Mpa for rigid systems without traffic	2,65 Mpa early failure of concrete

USE DIRECTIONS

Temperatures during application	$+8^o$ C min. / $+35^o$ C max.	
Dew point	Temperature of substrate during application shall be at least 3^o C above dew point	
Substrate	Moisture of substrate	≤ 4%
	Concrete quality	≥ C 20/25
	Cement screed quality	Cement content 350 kg/m^3

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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.

MIXING

Mechanically mix with a low revolution mixer the whole content of the both containers A+B *(you should always keep the predetermined mixing proportions)* for at least 5 minutes (low speed 300-350 rpm) in order to achieve uniform dispersion of the hardener, then gradually add the quartz sand under continuous stirring in a proportion of 1:2 by weight (epoxy resin A+B : sand) until a uniform epoxy mortar is formed.

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. Imperfection 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

Cementicious surfaces must be primed with SINMAST S 2 with a consumption 200-300 gr/m^2 prior to the application of SINROC/22 (other types of primer also available depending on nature of substrate and temperature conditions).
SINROC/22 application should take place not earlier than 6 hours after, but not later than 24 hours. In case, SINROC/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.

APPLICATION

Right after the sufficient mixing of SINROC/22 and quartz sand, the epoxy mortar is poured on the floor and dragged using a notched trowel at the desired thickness, ≤ 4,5 mm. Then, immediately roll the surface using a spiked roller to avoid air entrapment.
In case you want to achieve a slip resistant surface, apply the epoxy mortar as described above and while the layer is still fresh spread quartz sand (3-5 kg/m^2) with a particle size depending on the desired anti-slipping effect degree.
After hardening of SINROC all excessive sand must be removed using a professional vacuum cleaner. Finally, a top coat layer of SINMAST RM 32 is applied by roller with a consumption of ≈ 400 gr/m^2.

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THEORETICAL CONSUMPTION RATE : 600 gr/m^2/mm of thickness

Tools	Notched trowel
Cleaning of tools	Clean all tools with MEXYL before the hardening of material. Cured material can be removed only by mechanical means.
Packaging	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)