MergussEpoxy Coat

Epoxy floor coating, pigmented, used as coating or self leveling

DESCRIPTION

MERGUSSEPOXY COAT is 100% solid, two components epoxy resin, used as coating or self leveling to give concrete high performance protection.

It is easy to apply with good consistency for sealing surfaces. MERGUSSEPOXY COAT features wear resistance and chemical resistance in a seamless flooring system.

BENEFITS

- Gloss and smooth surfaces, provide dust supression and easy to clean surfaces
- Resistant to several chemical products
- Seamless and waterproof, concrete will not absorb water, food, or chemical spillage.
- Easy to apply
- Can be applied as Non-skid or smooth finish
- Wear resistant
- Available in colors

USES

MERGUSSEPOXY COAT is ideal to protect and seal surfaces floor for:

- Pharmaceutical factory
- Workshop, spare parts room
- Kitchen, food factory
- Clean rooms
- Hospitals, operating rooms
- Warehouses
- Factory processing area

For thickness of system for application in light, medium, or heavy duty area please contact Mergusa representatif.

APPLICATION GUIDE

Surface Preparation

Substrate must be dry, sound and free of all contaminants. Examine moisture content of concrete surfaces, if necessary perform adequate test prior to application.

Remove all dirt, laitance, grease, oil, curing compound or other foreign matter. Do not apply on standing water. Remove dust prior to application.

Concrete: Mechanical cleaning, shot-blasting, mechanical scrubbing or acid etch, depending on conditions.

Metal: Sandblast.

Wood: Clean and sound.

In case of doubt, consult Mergusa

Mixing Instruction

Mixing shall proceed at temperature 18^0 C – 30^0C to facilitate blending. Stir each component seperately before blending. Pour part A component into part B component pails and thoroughly mix with a low speed electric drill mixer or special epoxy mixer for approximately 3 minutes. It is suggested not mixing large quantities of epoxy in one blend, excessive heat will shorten pot life. Pour and blend pre-mixed pails of MERGUSSEPOXY COAT, apply, and mix other.

Application

Priming

Use MERGUSSEPOXY PRIMER -appropriate epoxy primer, apply thin coat to seal surface.

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Application continued

As coating (high build)
Apply thin coat to seal the surface, then apply a heavy coat by squeegee or roller at a rate of 2 – 2.5 m^2/l. If apply more thickness, prepare spike roll to remove entrapped air if required.
MERGUSSEPOXY COAT has long pot life but watch pot-life and do not over worked surface
Approximate thickness 500 –600 microns/ 0.5 – 0.6 mm
Mix Ratio (A : B) : 2 : 1 by volume

Broadcast system
Apply 1 coat at 2 m^2/l with a squeegee, let the material level itself for 10 minutes, then saturate with aggregates 20-40 mesh (40-85 mm) or other specified aggregate.
Let dry and proceed to remove excess aggregates.
Apply 1 or 2 coats of topcoat as per specification.
Use only dry and clean aggregate. Contact Mergusa to obtain aggregate.
Mix Ratio (A: B) : 2 : 1 by volume

As coating – self leveling
Self leveling method/ slurry/ self smoothing application will produced thick system. (1 mm – 2 mm). Before blending process mix C component (Part C) – silica sand with part A, then stirr with slow speed mixer until uniform then add Part B (hardener), mix for 3 minutes until uniform.
Pour to floor, use squeegee, or hand trowel, spread material as specify coverage. Use spike roller to remove bubbles/ entrapped air, keep working with spike roller until material level or before reach its gel phase.
Mix Ratio (A: B:C) : 2 : 1 : 2.4 - 3 by volume

Epoxy Colored Mortar Screeds
Mix thoroughly 2 parts A to 1 part B, and add recommended aggregates.
Using a trowel, apply at required thickness and let dry. The finish obtained at this stage will be non-skid. If smoother finish is required, apply additional coating of MERGUSSEPOXY COAT coating (A + B) only by squeegee or trowel to required texture.
Thickness with this method can be 3 mm – 8 mm

TECHNICAL INFORMATION

Color:	standard colors
Mixing ratio:	2 parts A to 1 part B (hardener) by volume
Pot life:	30 minutes (measure at 25^0C)
Recommended thickness:	Coating 350, 400 – 600 microns smooth surface or anti skid self leveling (add Part C) 1 mm, 1.5 mm, 2 mm.
Application	roller, paint brush, squeegee, hand trowel, spike roller
Coverage: coating self leveling	 0.4 – 0.5 liter/m^2 1.2 – 2.2 liter/ m^2
Curing time:	Light traffic 12 to 8 hours Full cure 5 - 7 days
Cleaning Solvent:	MERGUSS EPOCLEAN
Shelf life:	1 year in original Unopened container
Packaging:	10 liter set – coating 20 kg set – self leveling

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 13^0 C or above 30^0 C
- Ensure proper ventilation
- New concrete should have sufficient strength
- Observe dew point
- Substrate moisture about 4% use proper testing to check substrate moisture
- Max air humidity 85% r.h.
- Maximum slope 1.4%

MECHANICAL PROPERTIES

PROPERTIES	TEST METHOD	RESULTS
Compressive strength	ASTM C-579	60 MPa
Tensile strength	ASTM C-307	17 MPa
Flexural strength	ASTM C-580	21.5 MPa
Modulus of elasticity in flexion	ASTM C-580	2,591 MPa
Bond strength	ASTM D-4541 on Concrete	> 4.3 MPa
Abrasion resistance	ASTM D-4060 H-22 Wheels 1000 cycles	0.73 mm
Hardness (Durometer)	ASTM D-2240 (Shore D)	