

SOLID 620 – HYBRID EPOXY CONCRETE

PRODUCT DESCRIPTION

SOLID 620 Hybrid Epoxy Concrete is a resin-based hybrid epoxy flooring system developed by combining epoxy resin with specially formulated powder chemicals.

It delivers a high-performance flooring solution by integrating the mechanical strength of conventional concrete with the superior adhesion, elasticity, and chemical resistance of epoxy resin.

The product can be applied as both a primer and a topcoat on properly prepared, sound, and dust-free concrete substrates, eliminating the need for an additional primer.

It is suitable for application on concrete floors with moisture content of up to 30%, providing excellent adhesion to the substrate. Application must be carried out in accordance with the relevant technical documentation.

TECHNICAL SPECIFICATIONS

Appearance	: Semi-Gloss
Color	: Grey, Brick Red, Light Green, Blue
Density (g/ml at 20°C)	: 1,60 ± 0,05
Mixing Ratio (by weight)	: A Komp. 7,80 Unit : B Komp. 2,70 Unit : C Komp. 19,50 Unit
Solids Content by Weight (w/w)	: % 98 ± 2
Application Method	: Trowel, Gauge Rake
Recoat Time	: Max. 2 Days
Pot Life (20°C)	: 30-35 minute
Abrasion Resistance	: 70–74 mg (CS 10 / 1000 revolutions)
Shore D Hardness	: 89± (DIN 53505)
Flexural Strength 7 days	: >40 N/mm ² (TS EN 196-1)
Compressive Strength 7 days	: > 59/nm ² (TS EN 196-1)
Pull-Off Strength on Concrete	: 4 N/mm ² (pull-off on concrete) (TS EN 4624)
Full Cure (days / 22°C)	: 2 Days

CONSUMPTION AND THICKNESS INFORMATION

CONSUMPTION Wet Film Thickness (mm)	Dry Film Thickness (mm)	Theoretical Consumption ± 10 (gr./m ²)
3,12	2,92	5000

SURFACE PREPARATION

The surface to be treated must be completely free from dirt, oil, and grease, and made clean and sound. On previously coated surfaces, all loose, blistered, and poorly adhering old paint layers must be completely removed. Rust, burrs, and weak layers on the surface must be removed in accordance with **SA 2½** standards using diamond-tipped mechanical equipment, and the surface must then be dust-free by means of an industrial vacuum cleaner. Existing cracks, pits, and surface defects must be repaired with **SOLID GR 900 Mortar** repair material prior to application, and the surface must be made ready for application.

PRODUCT APPLICATION INSTRUCTIONS

Before application, **SOLID 620 HYBRID EPOXY CONCRETE** components A and B must be mixed separately with a low-speed mixer until homogeneous. Then component C is slowly added and mixed until a lump-free, fully homogeneous mixture is obtained. Application must be carried out on properly prepared, sound, clean, and dry substrates.

1st Coat – Scratch Coat

- Consumption: 0.5 kg/m²
- Application equipment: Steel trowel

The product is applied by scratching evenly onto the surface using a steel trowel. This coat is used to fill cracks and surface irregularities in the substrate.

2nd Coat – Main Coat

- Consumption: 4.5 kg/m²
- Application equipment: 4 mm notched steel trowel

After application of the first coat, the product is applied evenly to the surface using a 4 mm notched steel trowel and left to cure.

Curing Times

- Opening to foot traffic: 24 hours
- Opening to heavy traffic: 48 hours

The stated times are valid at an ambient temperature of 20°C. Curing times may be extended at lower temperatures.

For Dusty and Weak Substrates

- For loose and dusty substrates, the use of **SOLID PAINT PRIMER** transition primer is mandatory prior to application.
- The primer is applied by squeegee/gauge rake as a scratch coat, and application of **SOLID 620 HYBRID EPOXY CONCRETE** can begin approximately 1 hour later.

AREAS OF USE

- Factory and warehouse floors
- Industrial areas (workshops, production, logistics)
- Parking and garage floors
- Industrial floors exposed to water and chemical substances

ENVIRONMENTAL CONDITIONS

- During application, the ambient temperature must be between +15°C and +35°C.
- Application must not be carried out when the relative humidity exceeds 80%.
- To prevent condensation on the surface, the surface temperature must be at least 3°C above the dew point.
- The surface temperature must be minimum +10°C and maximum +40°C.
- In applications carried out at low temperatures, the product viscosity increases, which may result in higher consumption and extended curing times.

PACKAGING

- SOLID 620 Hybrid Concrete – Resin-Based Polymer, Component A: net 7.80 kg
- SOLID 620 Hybrid Concrete – Hardener/Catalyst, Component B: net 2.70 kg
- SOLID 620 Hybrid Concrete – Formulated Powder Chemicals, Component C: net 19.50 kg Total A–B–C Components: 30 kg

RAF ÖMRÜ

Malzeme serin ve kuru yerde orijinal ambalajında saklanmalıdır. Açılmamış ambalajda malzemenin depolama ömrü A ve B komponent için 12 aydır.



HEALTH AND SAFETY INFORMATION

- For required safety rules and warnings, please read the MSDS (Material Safety Data Sheet). The minimum safety precautions to be observed are listed below.
- Skin and eye contact with the product must be prevented by using protective gloves, safety goggles, a face mask, and industrial barrier cream.
- Adequate ventilation must be ensured during application and until the coating has fully dried.
- In case of skin contact, wash immediately with warm water and soap or an industrial cleaning agent. In case of eye contact, rinse with clean water for at least 10 minutes and seek medical assistance.
- All warning labels on the containers must be read carefully, and the recommended handling and working instructions must be strictly followed.



*Ürünlerle ilgili bilgilerimiz, normal şartlarda, kendi laboratuvar deneme ve araştırmalarımıza dayanılarak hazırlanmıştır. Uygun olmayan uygulama koşullarında çalışmalardan, firmamız sorumlu değildir. Bu bilgilerin değiştirilme hakkı, firmamızca saklıdır. Daha detaylı bilgi için **R.Y.K.** başvurunuz.

Rev. No:09/Rev.Tarihi: Ekim 2022



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