

THREE-COMPONENT HYBRID EPOXY SELF-LEVELING CONCRETE - REAL 620

PRODUCT DESCRIPTION

Three-component, hybrid, self-leveling concrete is a floor coating developed by combining epoxy resin and specially formulated powdered chemical components. Combines mechanical strength with high adhesion, elasticity, chemical resistance and protection of concrete surfaces, providing a high-quality floor coating. It is applied to previously cleaned, sound concrete substrates. It can be used both as a primer and a finish coat, without the need for prior priming of the substrate. It can be applied to concrete surfaces with a humidity of up to 30%.

TECHNICAL SPECIFICATIONS

Appearance	Full gloss
Color	Optional
Density (g/ml +20°C)	1,60 ± 0,05
Mixing ratio by weight	A comp.: 7.8 единици B comp.: 2.7 единици C comp. 19.5 единици
Solids content by weight (w/w)	% 98 ± 2
Application method	Trowel, squeegee
Reapply up to	2 days
Open time at +20°C	30-35 min.
Wear resistance	70-74 мг. (CS 10/1000)
Hardness by Shore D	89 ± (DIN 53505)
Bending strength	50 N/mm m ² (TS EN 196-1)
Compressive strength	59 N/mm m ² . (TS EN 196-1)
Tensile strength in concrete	4 N/mm m ² (TS EN 4624)
Complete drying at +22°C	2 days



Wet film thickness (μ)	Dry film thickness (μ)	Consumption rate ± 10 (kg/m ²)
3.12	2.92	5

Note: When the thickness of the application layer increases, the consumption also increases.

AREA OF APPLICATION

Hybrid, self-levelling epoxy concrete is suitable for floors in factories and warehouses, in industrial areas such as workshops, production and logistics premises, for floors in parking lots and garages, as well as for industrial flooring exposed to water and chemicals.

SHELF LIFE

The product should be stored in its original packaging in a cool and dry place. The shelf life in unopened packaging is 12 months for components A and B.

SURFACE PREPARATION

The surface to which the product will be applied must be completely cleaned of dust, grease and other contaminants to ensure a sound and clean base. In the presence of old coatings with rust, unstable or crumbling surfaces, these must be removed by cleaning. The rust is cleaned mechanically with a diamond tipped machine according to standard SA 2½, after which the dust formed from the cleaning must be cleaned with an industrial vacuum cleaner. If there are cracks or irregularities in the application surface, they must be filled with repair mortar GR 900 to ensure a smooth and even application surface.

PRODUCT USAGE

Before application, the REAL 620 HYBRID hybrid concrete components A and B are first mixed separately, then mixed and stirred with a mixer at low speed until a homogeneous mixture is achieved, then component C is added gradually until a homogeneous mixture is obtained, without lumps. It is applied to previously prepared, sound, dry and clean surfaces.

APPLYING

First layer of hybrid concrete:

Apply evenly using a steel trowel, this layer serving as a filling layer for cracks or irregularities on the surface. The approximate consumption for this layer is 0.5 kg/m²

Second layer (base) hybrid concrete:

After the first layer has dried, the hybrid concrete is applied evenly to the floor with a 4 mm notched steel trowel. The consumption for applying the second layer is approximately 4.5 kg/m².

Drying and hardening time:

After application, the floor is accessible for foot traffic after 24 hours, and for heavier traffic after 48 hours at a temperature of +20°C. At lower temperatures, the hardening and drying time may increase.

Dusty and crumbly surfaces:

For dusty and crumbly substrates, a transitional primer REAL PAINT PRIMER is used, which is applied with a trowel, on which, after one hour of drying, the REAL 620 HYBRID hybrid concrete can be applied.

ENVIRONMENTAL CONDITIONS

The air temperature should be in the range of +15°C to +35°C. Application should not be carried out at humidity above 80%. The surface temperature should be at least 3-5°C above the dew point to prevent condensation.

It should be borne in mind that the material consumption will increase when applying at low temperatures. The surface temperature should be at least +5°C and at most +45°C.

HEALTH AND SAFETY WORKING CONDITIONS

Read the Material Safety Data Sheet (MSDS) for safety rules and warnings.

The most important safety rules to follow are:

- Contact of the product with the skin and eyes should be prevented by using gloves, safety glasses, face mask and cream.
- Ventilation should be provided during application and until the primer has completely dried.
- In case of contact with the skin, the affected area should be washed with warm water, soap or detergent.
- In case of contact with the eyes, rinse thoroughly with water for at least 10 minutes and seek medical attention.
- It is necessary to carefully read all warning labels on the packaging and strictly follow the recommended operating instructions.

Criterion	Standard epoxy floor coating	3K, hybrid epoxy concrete
Primer	Requires application of primer	Does not require a primer, serves as a primer and finish coat
Moisture resistance	Low - suitable for dry substrates	Allows application on concrete surfaces with humidity up to 30%
Application system	Primer + intermediate coat + final coat	One product = primer and topcoat, no primer or intermediate coat required
Mechanical strength	Medium to high	Very high, with a massive structure similar to concrete
Impact resistance	Low to medium	High, thanks to the hybrid concrete structure
Application thickness	Thin film	Allows for a thicker and denser layer, providing additional protection
Resistance to heavy loads	Suitable for light loads	Suitable for industrial floors with heavy loads and traffic
Service life	Short service life	Long service life in harsh conditions and heavy traffic

PACKAGING

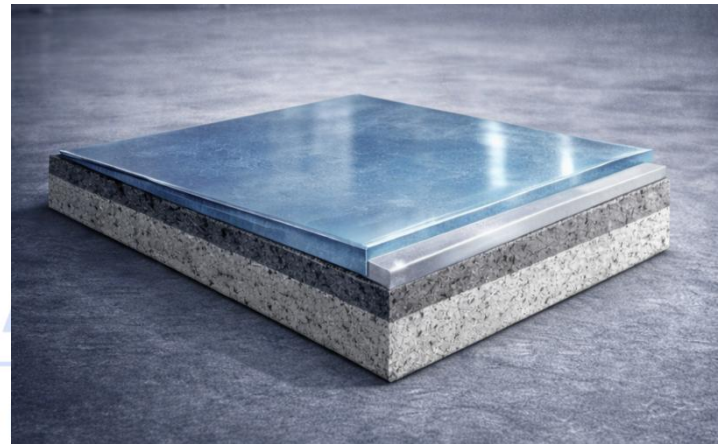
REAL 620

A component: 7.8 kg

B component: 2.7 kg

C component: 19.5 kg

Total weight of the set: 30kg



*Product information is prepared based on our own laboratory tests and studies under normal conditions. Our company is not responsible for work performed under inappropriate working conditions. The company reserves the right to change this information. For more detailed information, please contact... R.Y.K.

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