



Pool & Floor Paints

EPOXITE HIGH BUILD 2K

Technical Data Sheet

Reviewed: 29.05.2024

DESCRIPTION

EPOXITE HIGH BUILD 2K is a high-performance 2-component solvent-free – odorless, epoxy coating for high-traffic and daily-use areas. It has excellent adhesion, superior hardness and shows great resistance to abrasion and mechanical stress. It is highly resistant to chemicals, water and abrasion. Its special formula guarantees a durable glossy long-lasting finish. Ideal for professional and decorative hardwearing flooring finishes.

APPLICATIONS

It is applied with a roller as floor paint or with a notched trowel as a self-leveling compound after adding quartz sand with a grain size of 0.1-0.4mm in a ratio of 1:1 by weight.

- Suitable for painting concrete floors in factories, warehouses, garages, workshops and generally surfaces that are exposed to daily wear from abrasion and chemicals.
- Suitable for high gloss decorative interior floorings.
- Suitable for application on concrete, screeds and other surfaces when prepared properly.
- Suitable as a protective paint on concrete sewage treatment tanks (interior surface – "applied as smooth paint" - 2 coats). Suitable for interior use only.

ADVANTAGES

- Excellent adhesion and hardness
- High resistance to friction and mechanical stress
- High chemical resistance
- High resistance to permanent contact with water
- Ensures a durable finish
- Solvent free formulation – ideal for interior spaces
- Gloss finish – easy to clean
- Suitable for one coat application (max. 500gr/m²)

INSTRUCTIONS FOR USE

Surface preparation

1. Substrate must be clean of dust and grease. Dust, oils, salts, moisture and rust prevent paint from adhering.
2. Brittle concrete and cement mortar surfaces are unsuitable for painting and the paint will peel off. Concrete surfaces must be made of concrete grade C20/25 at least and the cement mortars must have a cement content of at least 350kg/m².
3. New concrete or cement mortar surfaces must be painted at least one month after their construction and their humidity must not exceed 4%.
4. Surfaces already painted must be thoroughly cleaned by chemical or mechanical means (e.g. mosaic sanding machine) and thoroughly sanded until a stable substrate is reached.
5. After sanding the surface, carefully remove the dust with a highly absorbent professional vacuum cleaner.
6. If the surface is washed with water it must dry for 2 – 5 days before painting (<4% substrate moisture).

Priming

Priming: The surfaces must be primed with **EPOXITE DUR 2K**, or **EPOXITE DRYMAX WET 2K** when there is rising moisture, or with **EPOXITE DUR AQUA 2K** for simpler uses to stabilize the substrate. On surfaces with increased porosity, it is recommended

to apply **EPOXITE DRYMAX WET 2K** mixed with M32 quartz sand in a ratio of 2:1 for better sealing. Cracks in the floor are filled either with two-component epoxy putty **EPOXITE CONSTRUCT 2K** or with a mixture of **EPOXITE HIGH BUILD 2K** with M32 quartz sand in a ratio of 1:2 by weight.

Application of **EPOXITE HIGH BUILD 2K** follows 12 to 24 hours after the primer application. If 24 hours have passed, the primer must be lightly sanded for better adhesion of the paint.

Application as a smooth coating:

1. Components A and B are packaged in pre-determined quantities for easy mixing.
2. Mix the two components after you have mixed each one very well separately (with a clean stirrer) and stir for 3 to 5 minutes carefully to mix the two components very well on the side walls and bottom of the container.
3. It is suggested that you pour the mixture into a new clean container and stir again for 2 minutes. If the two components are not mixed well uneven hardening of the paint will happen, with the possibility that some spots will not harden properly.
4. After mixing the two components wait 5 minutes and then apply the first coat. (~300gr/m²)
5. The application is done with a roller in two layers. The second coat should be applied after 12 to 24 hours. (~200gr/m²)
6. **Alternatively** apply one layer with a total consumption of 600gr/m² and sweep the surface with a short hair roller crosswise until a smooth result is achieved.
7. The coating acquires its final properties 7 days after the application of the final layer.

Total consumption: ~500gr/m² applied in one or two coats.

Application as a self-leveling coating:

- 1-3: Application as a smooth coating
 4. Start as in the smooth coating and after the 3rd step add quartz sand M32 to the mixture in a ratio of 1:1 by weight.
 5. Immediately pour the mixture on the floor and spread with a notched trowel to a thickness of 2 – 3 mm.
 6. Afterwards, wearing special studded shoes cross the surface with a spiked roller until any bubbles in the mixture are released.
- Total consumption: per mm of thickness: 0,8kg/m² **EPOXITE HIGH BUILD 2K** + 0,8kg/m² M32

Application for anti-slip finish:

- 1-4: Apply as a smooth coating – one coat ~300gr/m².
5. Immediately after the application of the first coat, pour on the still wet surface with M32 quartz sand until saturation. (3 – 4 kg/m²)
6. After about 24 - 48 hours, remove the unadhered quartz sand with a highly absorbent professional vacuum cleaner.
7. Finish with a sealing layer of **EPOXITE HIGH BUILD 2K** with a roller: ~400gr/m².

Evochem®

EVOCHEM S.A.
Tzaverdella place 13341, Fyli, Attica, Greece
Tel.: 210 5590460, 210 5590155 Fax: 210 5590244
E-mail: info@evochem.gr Website: www.evochem.gr





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Total consumption: ~700gr/m² EPOXITE HIGH BUILD 2K & 3-4kg/m² M32 quartz sand.

REMARKS

- Application conditions: Substrate's moisture: <4%, Surface's and Ambient temperature: 12°C - 35°C, Relative Air Humidity: <70%.
- Freshly painted surface must be protected from excessive humidity and rain for 36 – 48 hours.
- It is advisable to use protective clothing, gloves, hat and mask with filter suitable for solvents.
- If recoating is to be carried out after 48 hours, the surface must be sanded with coarse sandpaper and dust must be removed.
- Curing as well as pot – life are affected by ambient temperature and humidity. Low temperatures and high humidity tend to increase pot – life while high temperatures and low humidity shorten the pot life.
- Before application, carefully read all instructions and information relevant to its safe and best use (Safety Data Sheet).
- After fully cured, EPOXITE HIGH BUILD 2K is totally safe for health.

CLEANING

Clean tools with DIL X 100 solvent.

COVERAGE

0,5 – 2,4 kg/m² depending on application method

TECHNICAL CHARACTERISTICS

Base: Epoxy

Color: Grey RAL 7040 and other colors to order

Mixing Ratio (A+B): as displayed on lid

Thinning: Do not thin

Pot Life: 30' at 25°C – 45' at 20°C

Touch Dry at 25°C: after 6 – 8 hours

Light traffic at 25°C: after 24 – 36 hours

Recoating (2nd coat): after 24 hours at 25°C

Maximum strength: 7 days at 25°C

Specific Gravity (A+B): 1,50 ± 0,05 gr/cm³ 25°C

VOC (Volatile Organic Compounds): EU limit value for this product (cat. A/j): 500 gr/Lt (2010). This product (A+B mix) contains max 50 gr/Lt VOC

STORAGE

Products should be stored in a dry and cool place at a temperature of 5°C -30°C, away from sources of ignition. Protect from humidity and direct sunlight.

SHELF LIFE

At least 24 months from the production date in the above-mentioned storage conditions. The product should remain in the original unopened packaging bearing the manufacturer's batch number.

PACKAGING

SETS (A + B Component) of 1kg, 6kg & 13kg

PACKAGING	CODE	BARCODE
GREY RAL 7040		
ΣET 1kg	1936	5204094019367
ΣET 6kg	1937	5204094019374
ΣET 13Kg	1938	5204094019381
WHITE		
ΣET 1kg	1933	5204094019336
ΣET 6kg	1934	5204094019343
ΣET 13Kg	1935	5204094019350
TR BASE		
ΣET 1kg	2154	5204094021544
ΣET 6kg	1961	5204094019619
ΣET 13Kg	1962	5204094019626
M32 40kg	07049	

HEALTH AND SAFETY INFORMATION

Consult recent Safety Data Sheet before use.

Component A

UFI: VQX0-D04C-7003-QRYT

Component B

UFI: HTX0-V0TR-H00M-C3JV

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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E-mail: info@evochem.gr Website: www.evochem.gr

