



DESCRIPTION

It is an epoxy-based, two-component, low-viscosity, solvent-free primer material. It is used as an epoxy primer on factory and warehouse floors, work areas, loading areas, medium and heavy-duty industrial floors, concrete surfaces, cementitious mortars and screed surfaces, normal and highly absorbent surfaces, epoxy-based mortars or before epoxy, polyurethane topcoat applications. It can also be used as a binder for epoxy-based leveling mortars and mortar coatings. It has low viscosity and is solvent-free. It has good penetration and high adhesion properties. The waiting time between coats is short. It can also be used outdoors. It is easy to apply and versatile

PRODUCT FEATURES	AREAS OF USE
Epoxy-based structure Excellent adhesion strength Excellent penetration Low viscosity Even at low air temperatures maintaining its existing viscosity Brush, roller or airless spray ability to be applied with a gun Solvent-free Usability in outdoor environments Short waiting time between coats Versatile use Easy and fast application Reducing labor and time costs	It is suitable for use on the following properly prepared surfaces: Factory and warehouse floors, work areas, loading areas, medium and heavy-duty industrial floors, concrete surfaces, cementitious mortars and screed surfaces, normal and highly absorbent surfaces, epoxy-based mortars or as an epoxy primer before epoxy, polyurethane topcoat applications. ready to use! follow the application instructions during product application! consult us for all other application surfaces.

PACKAGING DETAILS

- **Set 20.00 kg**
- **Component A** 15.00 kg/L Tin bucket
- **Component B** 5.00 kg/L Tin bucket

CLEANING INSTRUCTIONS

- In small spills, it should be cleaned immediately with water before it is allowed to harden. All application tools (smoothing trowel, steel trowel, leveling foot, hand mixer) should be cleaned with water.
- More serious spills should be contained and removed with inert absorbent material.
- Contaminated and unusable content must be disposed of in accordance with local, regional regulations.

TECHNICAL INFORMATION

Property	Value
Related Standard	EN 1504-2
Product Class	Article 1.3, 5.1
Document Number	007446-TSE-15/01
Product System	Solvent-Free Epoxy
Average Mixing Ratio	A:B = 2:1
Pot Life	30±5 min C
Waiting Time Between Coats	Minimum 12 hours, maximum 2 days
Full Cure	7 days
Moisture Tolerance	< 4% (By Weight)
Thermal Resistance	+50°C (Continuous), Maximum 7 days
Color	Yellowish Transparent
Mixture Density	1.10±0.02 kg/L
Shore D (7 days)	83
Flexural Strength	30.00 N/mm ²
Compressive Strength	90.00 N/mm ²
Adhesion Strength to Concrete	4.00 N/mm ²
Adhesion Strength to Steel	3.00 N/mm ²
Water Vapor Transmission	Class I
Reaction to Fire	Class E

- Cured at 50±5% relative humidity for 28 days.

SURFACE PREPARATION

Before application, the surface is checked and if there are parts to be repaired on the surface, first these surfaces should be repaired with Kar Repair series repair mortars. After 7 days the process of insulation should be applied. The surface to be applied must be dry. Water accumulation, puddling if present should be removed. Application sharp edges and corners should be rounded. A chamfer (cement-based) with a diameter of at least 5 cm should be made on the corners and edges. The compressive strength of the concrete to be applied should be min. 25 N/mm² and the tensile strength should be min. 1.5 N/mm². The moisture content in the concrete should be less than 4%. Considering possible movements, a suitable joint plan should be made, and the required joints should be transferred to the coating. Defects larger than 5 mm on the application surface and tie rod holes in curtain walls should be repaired by filling them with suitable repair mortars. If water, water vapor and salt efflorescence are present from the negative side, application should not be made to that surface. Roughening should be done to increase adhesion on extremely impermeable (high strength class) concrete and curtain walls. High spots on the surface should be sanded and cleaned. Surfaces should be mechanically roughened (Blastrac or milling) and dust should be removed with a vacuum cleaner. During application, the ambient temperature should not exceed 50% relative humidity when +10°C and 80% when +30°C. The temperature of the surface to be applied should be between +10°C and +30°C. The temperature of the surface to be applied should be 3°C above the dew point. Cold weather applications: the ambient and surface temperature should be increased with heaters. Kar Floor EP 101 packages should be stored at +20°C one night before. Avoid application in hot weather conditions of 35°C and higher.

PRODUCT APPLICATION

Appropriate work clothes should be worn and appropriate glasses and masks should be used in accordance with occupational health and safety rules before and during the application of Kar Floor EP 101.A and B components should be mixed with a low-speed mixer for at least 3-4 minutes, paying attention to the mixing ratios, until a homogeneous mixture is obtained. The mixture is ready for application after mixing. The ready-to-use product is applied to the surface with a stiff-bristled brush or spraying machines. Make sure that a continuous and nonporous layer covers the surface. If necessary, two coats of primer application can be done. Kar Floor EP 101 spilled around and equipment can be cleaned with solvents. Crystallization may occur in the product during long-term storage below 8°C. If the product is brought back to room temperature and the crystals are dissolved, it can be used again without any loss of performance.

APPLICATION NOTES

Kar Floor EP 101 should always be mixed in specified ratios; these ratios should not be exceeded. During application or drying, the ambient and surface temperature should be at least +10°C and at most +30°C. Do not use below the allowed minimum temperature for the material to complete hardening. Low temperatures will slow down hardening, while high temperatures will accelerate hardening. Pot life will also vary depending on temperatures. Kar Floor EP 101 should not be applied to frozen, melting, or surfaces that are in danger of freezing within 24 hours. Should not be applied under direct sunlight, strong wind, or hot (heated) surfaces. The surroundings and roof of the application area should be covered and doors and windows kept closed to prevent airflow. Only openings that ensure healthy air flow should be present in the area. Before application, measure the moisture of the floor to be applied. If above 4% by weight, Kar Floor EP 103 with moisture tolerance is recommended. Waterproofing or painting should be done at least 12 and at most 48 hours after the primer application. If this period has passed, the primed surface should be

sanded. Kar Floor EP 101 is not UV resistant. The product should never be diluted. After application, surfaces should be protected against direct sunlight, strong wind, and high air temperature ($>35^{\circ}\text{C}$). Immediately after application, equipment and hands should be cleaned with solvents. After the product has hardened, it can only be cleaned mechanically.

PRODUCT LIMITATIONS

The product has no acid resistance. The product should not be used in areas exposed to intense heat. Do not add water to the product. The product should not be applied in the rain. The compressive strength of the concrete must be min. 25 N/mm^2 and tensile strength min. 1.5 N/mm^2 . Moisture $<5\%$. During application, work in well-ventilated areas away from flame. Continuous ventilation and carbon active masks are recommended. Solvents are heavier than air and will circulate on the ground. Ambient temperature during application: 50% RH at $+10^{\circ}\text{C}$, 80% RH at $+30^{\circ}\text{C}$. Surface temperature: $+10^{\circ}\text{C}$ to $+30^{\circ}\text{C}$. Do not use below minimum allowed temperature. Low temperatures slow down setting, high temperatures accelerate it. The product is not subject to ADR.

CONSUMPTION – SHELF LIFE – STORAGE

- **Purpose of Use:** Product Consumption
- **As a primer** :300 – 500 g/m²
- **As thin leveling mortar:** 1 part Kar Floor EP 101 / 0.5-part quartz sand (0.1–0.3 mm) = 1.40 – 1.60 kg/m²
- **As thick leveling mortar** :1 part Kar Floor EP 101 / 1 part quartz sand (0.1–0.3 mm or 0.3–0.8 mm) = 1.60 – 1.80 kg/m²
- **As adhesion bridge:** 300 – 500 g/m²
- **As adhesion bridge:** 1 part Kar Floor EP 101 / 10 parts quartz sand (0.3–0.8 mm) = 2.20 – 2.40 kg/m²
- Must be stored in original packaging in dry environment $+5^{\circ}\text{C}$ to $+30^{\circ}\text{C}$. Shelf life: ≥ 18 months unopened. Package tightly closed when not in use

SAFETY & PRECAUTIONS

Avoid prolonged contact with skin and inhalation of dust, vapor and/or spray mists. Causes eye irritation. Use adequate ventilation. Provide clean air intake during process. If tearing, headache, dizziness, or if vapor/fog levels exceed limits, use CE approved respirator. Follow respirator manufacturer's instructions. Avoid contact with eyes, skin, clothing. Do not eat or smoke without washing hands thoroughly. Close container after each use.

FIRST AID

- **Skin contact:** wash with plenty of warm soapy water.
- **Eye contact:** flush with water for 15 minutes, seek immediate medical attention.
- **Difficulty breathing:** leave area to get fresh air. If persists, seek medical attention.

- **If swallowed:** do not induce vomiting, seek immediate medical attention

WARRANTY & DISCLAIMER

Data is based on scientific and practical knowledge. KARADENİZ MADENCİLİK SAN. VE TİC. A.Ş. is responsible only for product quality. Not responsible for consequences from use outside written recommendations.

Seller not liable for any direct or indirect damages. Valid until a new TDS is issued.

