



KLB-SYSTEM EC 940 Grund

One-component, ready-to-use adhesion primer on a low-emission dispersion basis for subsequent mineral layers with KLB-SYSTEM EC 633 C

Packaging units

Article no.	Packaging	Content (kg)	Units/pallet
DP7611-50	Canister	10.00 kg	40



Product characteristics

Processing time	Ready-to-use. Not limited!
Processing temperature	Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (accessibility)	1 - 2 hours at 20 °C / 68 °F
Consumption	0.180 - 0.250 kg/m ²
Packaging	Plastic canister 10 kg
Colours	Milky-transparent liquid
Colour after drying	Transparent
Shelf life	6 months (originally sealed) - Protect from frost!

Product description

KLB-SYSTEM EC 940 Grund is a low-emission, ready-to-process system bonding agent for subsequent mineral levelling layers based on **KLB-SYSTEM EC 633 C**.

KLB-SYSTEM EC 940 Grund consists of a high-quality dispersion formula and offers a very good interlayer adhesion between the mineral concrete substrate and the mineral levelling mortar **EC 633 C**. The ready-for-use adjustment allows processing to be without the otherwise usual pot life of reaction resins. The product is low-emission and easy-to-process; no special protective measures are thus required during application. The material cures by drying of the water contained and by film formation of the dispersion binder to a very adhesive film.

KLB-SYSTEM EC 940 Grund is certified by EUROFINS and EMICODE® EC 1^{PLUS}, thus meets the requirements for a sustainable building certification according to DGNB, LEED or BREEAM; not only the German requirements of AgBB or ABG, but also the emissions regulations of many other European countries.

Area of application

- As system primer prior to the application of the self-levelling mortar **KLB-SYSTEM EC 633 C** in layer thicknesses of approx. 3 - 6 mm (up to 10 mm possible) for levelling milled or very uneven concrete surfaces.
- Suitable for cement-bound substrates such as concrete, screed, etc,
- As adhesion primer for cement-based substrates.

Product features

- tested, low-emission quality

- EMICODE® EC 1PLUS certified
- compliant with AgBB and suitable for recreation rooms
- Total Solid according to GISCODE
- physical drying
- non-pigmented film
- physiologically harmless
- ready-to-use
- free of deleterious substances against varnish

Technical data

Viscosity	< 100	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Density	approx. 1.03	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Adhesive tensile strength	> 1.5	N/mm²	DIN EN 1542
Flashpoint	Non combustible	-	

The values established in tests are average values. Deviations from the product specification may occur.

Tests

The following external test certificates are available:

- Certified as low-emission according to EMICODE with the EC 1^{PLUS} label. Compliant with AgBB for recreation rooms.

Substrate

The substrate must be even, dry, free of dust, sufficiently resistant to tension and compression, as well as be free from weakly-bonded components or surfaces. Materials impairing adhesion such as grease, oil and paint residues should be removed with suitable measures. Observe the information issued by the trade associations, e.g. the most recent versions of BEB worksheets KH-0/U and KH-0/S. The substrates to be coated must be prepared mechanically, preferably by shot-blasting or if necessary by milling and grinding. The surface strength must then be at least 1.5 N/mm². The prepared area must be primed carefully and with closed pores. If the surface has not been primed to be closed or if it is highly absorbent, a further priming layer with **EC 940 Grund** may have to be applied. If the substrate has not been primed adequately, bubbles and pores can develop in the coating due to air rising from the substrate. If an assessment is not possible in advance, we recommend processing a sample area.

Processing

Mixing: the product is delivered to the building site in a ready-for-use condition (shake briefly if necessary), further addition of water is not permitted.

Application: process the bonding agent onto the prepared substrate using a nylon roller, pile height 8 mm or a sealing brush. Application is done in a uniformly thin and closed layer on the surface. Avoid puddle formation and uneven layer thicknesses. If the substrate is highly absorbent, a further application layer is recommended. For this purpose, we recommend the "water drop test", after penetration or preparation of the substrate, a further priming layer with **EC 940 Grund** is necessary. **EC 633 C** can be applied when the primer has dried completely transparent. Always work "fresh-in-fresh" to avoid any shoulders. Floor and air temperature must not fall below 10 °C / 50 °F and humidity should not exceed 75 % during processing. The recommended climatic conditions must also be maintained during curing or drying.

Cleaning

To remove fresh contamination and to clean tools, use water immediately.

Storage

Store in dry and at frost-free conditions. Ideal storage temperature is 10 - 20 °C / 50 - 68 °F. Protect from direct sunlight. Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible.

Special remarks

The necessary information is contained in the DIN Safety Data Sheet. Observe all identification information on the container label!

GISCODE: D1

Indication of VOC-content:

(EG-Regulation 2004/42) Maximum Permissible Value 140 g/l (2010,II,i/wb): Ready-for-use product contains < 140 g/l VOC.

CE marking

	
KLB Kötztal Lacke + Beschichtungen GmbH Günztalstraße 25 FRG-89335 Ichenhausen	
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EC 940 Grund-V1-2020	
DIN EN 13813:2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR4	
Fire behaviour	B ₁ -s1
Emission of corrosive substances	SR
Wear resistance BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 4



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All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume any responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions. We recommend on-site trials to be conducted in individual cases. With the publication of this new KLB product information, all prior information loses validity. The latest version is available electronically on our website www.klb-koetztal.com. In addition, our "General Terms and Conditions" apply.