

Knafloor Feld

Technical Data Sheet



Product classification

Knarr Knafloor Feld is a two-component, solvent-free, epoxy resin-based, low-viscosity epoxy primer designed to prepare concrete and similar surfaces for subsequent painting. It acts as an adhesive between the decorative paint applied to the floor and the concrete.

Recommended uses

It is intended to be used as a primer on the floor of production facilities, factories, warehouses, car garages, places where chemical resistance is required, etc. similar areas.

Film thickness and theoretical spreading rate

	Minimum	Maximum	Recommended
Film thickness, dry (μm)	176	880	440
Film thickness, wet (μm)	200	1000	500
Theoretical spreading (m^2/l)	5	1	2

Epoxy floor covering is a system whose thickness varies depending on the surface it is applied to. Epoxy floor coating can be up to 6 mm thick, applied in almost 3 layers to smooth rough areas.

Physical specifications

Color		Transpar Yellow
Volume solids	ASTM D2697-03	88%±2 (by volume)
Density (gr/cm^3)	ASTM D1475-13	1.08±0.02
Viscosity (25°C) KU	ASTM D562-10	100±5
Flash point	ISO 3679	36°C±2
Gloss level (GU 60°C)	ASTM D523-14	Semi gloss (40-60)
Pot life (23°C)		1-2 hours
Mixing ration (by weight)		4 unit A Comp., 1 unit B Comp.
Thinner		Not diluted
Heat resistance		Up to 120°C (1 hour at 140°C max)

All results are mixture (A+B) mixtures and can differ slightly depending on color.

Surface preparation

All surfaces must be clean, dry and free of dirt. Surface irregularities should be removed with special machines. Surface irregularities must be removed and filled with special materials. Surface and ambient temperature during application should be between +5°C and +30°C.

The components should be well mixed with each other. Since it is not possible to use the product after the end of the pot life, the mixing ratios should be considered in order to avoid wasting the material, and the mixtures should be prepared according to the amount of use. Tools used should be cleaned with Knarr Epoxy Thinner after each application.

Applied surfaces must be protected from physical and chemical influences for 7 days.

Paint should never be discharged into sewers or waterways.

“CMT Group” MMC

Ünvan: Badamdar shos. 27, Bakı, Azerbaijan

Tel: (+994 12) 502 45 50

Faks: (+994 12) 502 45 51

E-mail: office@cmt.com.az

Web-site: www.knarrpaints.com



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Application

Mixing

The product is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. Do not mix more material than can be used within the specified pot life.

- Stir the base (Part A) with a clean mechanical mixer.
- Then add the entire contents of Curing Agent (Part B) and mix thoroughly.

Avoid too vigorous mixing as it leads to in air inclusion, which may result in poor application results.

If thinner is required, only add after mixing of the two components.

Irrespective of the substrate temperature, the advised minimum temperature of the mixed paint is 15 °C. At lower temperatures, more thinner may be required to obtain a proper application viscosity, which may result in lower sag resistance and slower curing.

The temperature of the substrate should be at least 10°C and at least 3°C above the dew point of the air.

Temperature and relative humidity should be measured in the vicinity of the substrate.

In general, the maximum recommended surface temperature is 40°C. Higher steel temperatures are acceptable provided dry-spray is avoided by proper spray application and extra thinning if required. In extreme cases it may be necessary to reduce film thickness in order to avoid sagging.

When applying the paint in confined spaces, provide adequate ventilation during application and drying. Observe local regulations. Please contact Contact "CMT GROUP" for a specific recommendation.

Methods of use

- Roller** It is suitable. Care must be taken in the application in the specified thickness
- Brush** It is recommended for cuttings and application in small areas. Care must be taken in the application in the specified thickness.

Drying and curing time

Drying duration depends on weather conditions, thickness and number of layers. In the table below, approximate drying duration is shown in different temperatures.

- Surface must be good-ventilated (Open air or free air circulation)
- Paint must be applied in recommended thickness
- Thickness must be determined according to the number of layers

Weather temperature	10°C	23°C	40°C
Touch drying	2 hours	1 hour	30 min
Full drying	16 hours	8 hours	4 hours
Curing time	12 days	7 days	4 days
Second layer, minimum	24 hours	12 hours	6 hours

Information shows above determined according to rules. Drying time can be increased or decreased depending on film thickness, ventilation, old paint system, applications on paint, mechanical resistance and thinner amount.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in

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combination with this product. Some examples are shown below. Contact our company for specific system recommendation:

Next coat: Epoxy

Typical paint system

Knarr Knafloor Feld	1 x 300 μm
Knarr Knafloor SL	2 x 1000 μm

Storage conditions

Paint must be stored according to territorial conditions in dry, cool, good ventilated places where there is not any risk for high temperature and sparks. It is recommended to mix the paint before usage. Containers must be kept tightly closed. Shelf life is 36 months (at 23°C).

Packaging

Produced 15 Kg Component and 3.75 Kg B Component.

Applier paint specialist

This product is for professional use only. The applicators and operators should be trained, experienced and have the capability and equipment to mix and apply the coatings correctly and according to requisition. Applicators and operators must use appropriate personal protection equipment when using this product.

Color of the product

When applicable, products primarily meant for use as primers or antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Caution

The information above is prepared based on laboratory testing and practical experience. The company cannot guarantee anything but the quality of the product, because products are often used under conditions beyond our control.

Health and safety rules

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Attention: "CMT Group" LLC holds right to change information on this Technical Data Sheet without further notice.

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