

# KDF

Sports Flooring Systems & Building Materials  
**45 YEARS OF EXPERIENCE**

## KDF LINO LIQUID FLOORING *natural living*



*eco-friendly*

*hygiene*

*antibacterial*

[www.kdf.gr](http://www.kdf.gr)

**KDF LTD** ([www.kdf.gr](http://www.kdf.gr)) is one of the most dynamic and export-oriented Greek companies (currently activated in more than 80 countries in 4 continents), based in Greece (EU) and in U.A.E too, with production facilities and warehouses in both countries for acrylics and polyurethanes and **EPDM** granules.

**We are experts in sports, industrial and decorative flooring products and systems**, with huge experience in Europe with many applied projects in Spain, France, Greece as well as Malta, Romania, Bulgaria, Croatia, Serbia and Ukraine. Our presence is active in Latin America too with projects in Colombia, Peru, Chile, and Brazil, Africa, Asia, Middle East and India as well.

Our export horizon is expanding rapidly, and our goal is to stand out as a model of flexibility and competitiveness. The company, being one of the pioneer companies in the sector of sports flooring systems and building materials and giving particular attention to providing a fully upgraded range of products and services, provides certified systems according to all **EU norms and regulations** and by well-known international institutes like **WORLD ATHLETICS, I.T.F, TUV, LNE, LABOSPORT, ISASPORT, INTERTEK to name but a few.**

**KDF** goes far beyond trade, providing consultancy in marketing and technical support all the way, from the costing till the finalization of the project. Operating under the requirements of **ISO 9001/2015** (and many others like **ISO 14001/2015, ISO 50001/2018, ISO 27001/2013** and more) for production, trade and application, we make sure our products are first applied successfully at site by our own people before we launch them abroad.

Therefore, our systems have all stood the real-life test in different climates, from North Europe to Middle East till South America, and this is one of our main assets, enabling us to provide full and vertical technical support from specifying to final application plus supervision when required or even full application and costing.

**We invite you to discover a world of sports flooring expertise and solutions.**

VIEW OUR NEW SPORTS CATALOGUE



**KDF - Kataskeves Dapedon LTD**  
e : [exports@kdf.gr](mailto:exports@kdf.gr)  
w : [www.kdf.gr](http://www.kdf.gr)

19th km National Road Thessaloniki-Moudania  
57001, Neo Rysio, Thessaloniki, Greece  
t / f : +30 2310 829598

# Contents

- 3. Technical Description of the system
- 4. Methodology of the system
- 6. Colorchart
- 8. Technical Data Sheet (TDS) per each material

# SPECIALIZED SYSTEMS

## **KDF NATURA FLOORING**

KDF NATURA FLOORING is composed of sustainable materials such as vegetable oils, cork, wood, and natural color pigments. It is seamless, smooth, and can be customized in color and pattern, with a matte finish.

This system creates a durable, resilient, and natural-looking indoor floor with excellent mechanical and insulation properties.



### **Steps:**

- 1. KDF NATURA PRIMER - Special, modified primer.**  
Applied by brush on asphalt surfaces or on waterproof concrete surfaces without rising humidity issues.
- 2. KDF NATURA FLOORING - Revolutionary, linoleum flooring in paste form.**  
Applied by notched trowel and rollers in the desired thickness.
- 3. KDF NATURA TOP COAT - Special, modified mat top coat.**  
Applied with rollers.



Description	Consumption
KDF NATURA PRIMER - Special, primer.	0.3kg/m <sup>2</sup>
KDF NATURA FLOORING - Revolutionary, liquid linoleum flooring.	0.93-1kg/m <sup>2</sup> /mm for 2 layers
KDF NATURA TOP COAT - Special, mat top coat.	0.1kg/m <sup>2</sup>

## KDF NATURA FLOORING

---



**KDF NATURA FLOORING** is a mixture of pure sustainable materials such as vegetables, oil, cork, wood with natural color pigments which are found in mother nature.

The system is seamless, smooth and can have different colors and patterns or design with a mat finish.

### **Preparation – Application**

**Applied only on dry, smooth, concrete surfaces, protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application depends on the right preparation of the underlay and use of the material.

- ✓ Preparation of the surface using a mosaic machine.
- ✓ **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and use of squeegees.
- ✓ Caution must be taken so that temperature of the substrate as well as ambient air remains above 12°C and till 35°C during application and curing of the materials while relative humidity does not exceed 75%.
- ✓ Priming the surface with **KDF NATURA PRIMER**, a special, primer, in two or more layers. Consumption: 300 gr/m<sup>2</sup>, depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the industrial covering, to ensure proper adhesion.
- ✓ Then, application of **KDF NATURA FLOORING**, with notched trowel and rollers, until the surface is saturated and a film is created.  
Consumption: 0,93-1,0 Kg/m<sup>2</sup>/mm.
- ✓ Finally, after the mixture is dried follows the application of the specially modified **KDF NATURA TOP COAT**, a two-component, mat finish.

### **Substrate**

#### **Concrete Surface**

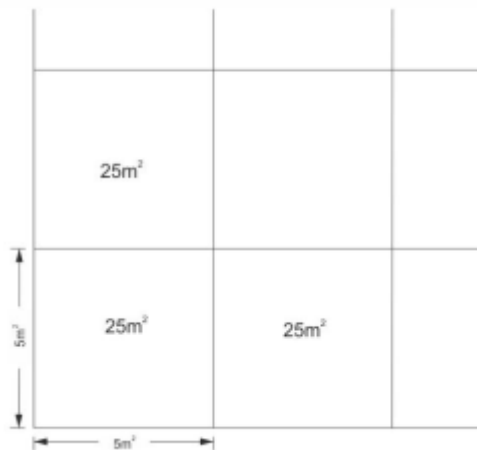
**The concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.**

Concrete must also be **dry for at least 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine

to open the pores accordingly and also a measurement by special instrument to measure humidity on the surface and in 10cm under the surface.

Generally concrete is a risky sub-floor and there may be problems with rising humidity, especially in areas where the sea level is high and when the sea is close or in areas near greenery.

**Always make expansion joints in large areas of concrete, to avoid uncontrollable cracks and failures.** Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.



### Substrate requirements

Concrete quality	at least C20/25
Age:	at least 40 days
Moisture content:	below 4%

### Tools:





The colors may vary slightly from the original due to digital representation.



The colors may vary slightly from the original due to digital representation.

# KDF NATURA PRIMER

TRANSPARENT, TWO COMPONENT, MODIFIED PRIMER, USED AS PRIMER COMPONENT FOR KDF NATURA FLOORING

## GENERAL CHARACTERISTICS

**KDF NATURA PRIMER** is a clear, two-component modified resin, which is used as an adhesive component between the sub-floor and **KDF NATURA FLOORING** system.

- Penetrates in depth and secure proper adhesion.
- Ideal for old and new cement-based surfaces.
- Eliminates dust from decay in old & new floorings, reinforcing their durability.

## TECHNICAL DATA

Basis:	two-component
Appearance:	liquid
Color:	light brown
Viscosity:	100-400 mPa•s at 25°C
Density:	0,96-1,06 Kg/lit
Mixing proportion(A:B):	70:30 by weight
Temperature for the application and drying of the material:	10 – 38°C
Adhesive strength:	> 3 N/mm <sup>2</sup> (breaking of concrete)

## SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

## PREPARATION-APPLICATION

**Applied on dry cement surfaces with humidity less than 4%, free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C and below 38°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.

- 
- Priming of the surface with **KDF NATURA PRIMER** in two or more layers. Consumption: 300gr/m<sup>2</sup>, depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of the industrial covering, in order to ensure proper adhesion.
- 

### CONSUMPTION

300 gr/m<sup>2</sup> in two or more layers depending on the type and the absorbency of the underlay.

---

### APPLICATION TOOLS

Paint rollers, brushes. Tools should be cleaned with solvent immediately after use.

---

### PACKAGING

Supplied in drums of 15 Kg and barrels of 200 Kg.



### TOOLS

Airless sprayer, brush.



### STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture and heat.

---

### REMARKS

- Working time of **KDF NATURA PRIMER** decreases when ambient temperature rises.
  - Prolonged storage of partially used containers containing **KDF NATURA PRIMER** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
  - Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
  - Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
  - **It cannot be applied in thickness for filling in cracks or holes.**
-

---

**CAUTION**

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

**For more information consult the material safety data sheet.**

---

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

# KDF NATURA FLOORING

## LINOLEUM IN PASTE FORM

### GENERAL CHARACTERISTICS

**KDF NATURA FLOORING** is a mixture of pure sustainable materials such as vegetable, oil, cork, wood with natural color pigments which are found in mother nature.

The system is seamless, smooth and can have different color and patterns or design with a mat finish.

The floor created of **KDF NATURA FLOORING** is a very durable and natural looking, resilient, indoor flooring with great mechanical and isolating properties.

There is a big variety of colors according to the architect's or client's desire. Our range includes of 56 colors and patterns is unlimited.

The end floor has great mechanical properties and also after drying it has great resistance to impact, time wear, inorganic acids and solvents, and it can be recommended as waterproof flooring. It is very easily maintained and doesn't contain any plasticizers.

- Hygiene
- Eco-friendly, recycles raw material of mother nature
- Antibacterial
- Soundproof
- Low maintenance cost
- No plasticizers
- Anti-slip
- Self-leveling
- Easily repaired

---

### TECHNICAL DATA

Specific weight	0.93 Kg/dm <sup>2</sup>
Density	0,93-1,03 Kg/lt
Viscosity	2000-5000 mPa•s at 25°C
Compression strength	20 N/mm <sup>2</sup>
Mixing proportions	66,67:33,33 by weight
Bond strength	> 3 N/mm <sup>2</sup>
Tensile strength	14 N/mm <sup>2</sup>
Elongation at failure	40%
Hardness	50 Shore D
Resistance to indentation	0.03 mm, EN 433
Effect of a furniture leg	No damages, EN 424
Castor chair continuous use	Slight change in appearance, no delamination, 25000 rotations, EN 425

---

---

Abrasion resistance	ASTM D4060 14 ·CS17 ·Wheels /10N/1500 cycles ·55mg
Electrical behavior	<2K kV, EN 1815
Thermal insulation	0,027 m <sup>2</sup> x K/W, Suitable for underfloor heating
Light fastness	7-8, EN ISO 105 B02(1 ·Severe Change ; 8-No Change)
Flexibility	20mm, No cracking, EN 435
Fire rating	Cfl S1 EN 13501-1
Resistance to chemicals	No changes with all chemicals used, EN 423
Staining resistance	Category 1+2 : level 5, Category 3 level 4/5, EN 423
Cigarette resistance	Proc A stubbed out ≥ level 4 Proc B (burning ) ≥3, EN 1399
Slip resistance	Standard Slip resistance R9, R10 and R11 is possible on special request
Acoustical impact noise reduction	ΔLw=15 Db, EN ISO 717-2
Thickness swelling	Watertight, EN 13553
Suitability for use in incidental humid conditions	Suitable, EN 426
Walkability	After 24 hours

---

## PREPARATION-APPLICATION

**KDF NATURA FLOORING** is applied in various areas such as schools, hospitals, hotels, malls, shops and also in any indoor area.

Recommended thickness of application from 2mm till 6mm with two variations:

- In 2-4mm thickness for classrooms and areas where chairs will be used.
- Till 6mm thickness for corridors, with the use of a shock-pad.

- Good, dry cleaning of the surface from dust and residues using vacuum cleaner and squeegees.
- In special cases and only then and after proper sandpaper usage it can be applied over existing linoleum rolls.
- The application must take place at a temperature slightly over 10°C and till 38°C.
- Priming of the surface with the special primer **KDF NATURA PRIMER**.
- Following, the mixture is poured on the surface and spread on the desired thickness using toothed spatula.
- The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 20-30 minutes of mixing at 25°C.
- After drying a mat top coating is applied on the surface.

---

## CONSUMPTION

0.93-1.0Kg/m<sup>2</sup>/mm.

---

---

## PACKAGING

15Kg set (A+B).



---

## TOOLS

Notched trowels and rollers.



---

## STORAGE

12 months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C.

---

## CLASSIFICATION

- CLASS 23 DOMESTIC HEAVY  
Minimum thickness 2mm
- CLASS 34 COMMERCIAL VERY HEAVY  
Minimum thickness 2mm
- CLASS 43 INDUSTRIAL HEAVY  
Minimum thickness 2.5mm

---

## CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

**For more information consult the material safety data sheet.**

---

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

# KDF NATURA TOP COAT

## MAT FINISH COATING

### GENERAL CHARACTERISTICS

**KDF NATURA TOP COAT** is a special, mat finish coating for **KDF NATURA FLOORING**.

Provides a mat surface with exceptional resistance in abrasion and various chemical agents.

### TECHNICAL DATA

Application Temperature	10-38°C
Mixing proportion	82,3:17,7 by weight
Density	0,92-1,02 Kg/lt
Viscosity	600-1000mPa•s at 25°C
Curing (20°C)	8-10 hour
	After 12 hours you may walk over it.
	After 7 days it resists against mechanical load and chemical substances.
Color	Transparent

### PREPARATION-APPLICATION

- Good, dry cleaning of the surface from dust and residues using vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 10°C and below 38°C during application and curing of the materials while relative humidity does not exceed 75%.
- The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. Airless sprayer or roller can apply **KDF NATURA TOP COAT**.

### CONSUMPTION

App.0,1-0,15Kg/m<sup>2</sup>.

### PACKAGING

10kg set (A+B).

### TOOLS

Airless sprayer, rollers.



### **STORAGE**

12 months in unopened containers in dry places with minimum temperature 15°C and maximum temperature 30°C.

---

### **REMARKS**

- Working time of **KDF NATURA TOP COAT** decreases when ambient temperature rises.
  - Prolonged storage of partially used containers containing **KDF NATURA TOP COAT** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
  - After hardening **KDF NATURA TOP COAT** is completely safe for health.
- 

### **CAUTION**

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

**For more information consult the material safety data sheet.**

---

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.