

DFC 300

It is a solvent-free, self-leveling, epoxy-based floor covering material with high mechanical strength and high chemical resistance.

■ ADVANTAGES

Its distinctive features are high surface hardness, water and chemical resistance, high mechanical resistance and easy cleaning.

■ SCOPE OF APPLICATION

It is applied as an intermediate and final coat on metal or concrete in factories, warehouses, shopping malls, workshops, aircraft hangars, schools, hospitals, pharmaceutical industry, food industry, laboratories, parking lots, treatment plants, areas where heavy forklifts and corrosive chemicals are used.

■ STORAGE

Packaging	19 kg + 5 kg / Set
Colour	RAL Colors
Shelf Life	12 months from the date of production in dry and moisture-free environments, provided that the packaging is not opened or damaged. The packaging should be tightly closed when not in use. Packaging should be protected from frost and sun.

■ MECHANICAL STRENGTH

Compressive Strength (N/mm ²)	(DIN EN 196)	~50
Adhesion Strength (N/mm ²)	(EN1542,ENISO4624,EN12118)	3 (Concrete Surface)
Flexural Strength (N/mm ²)	(DIN EN 196)	~25
Shore D		75-80
Wear Resistance		70mg (CS10/1000/1000) (8gün/+23oC)

■ CONSUMPTION

1.5 kg for 1 mm thickness.

■ CHEMICAL RESISTANCE TABLE

CHEMICAL MATTER	RESISTANCE
Sulfuric Acid (H2SO4) 10%	3
Sulfuric Acid (H2SO4) %20	3
Hydrochloric Acid (HCL) 10%	3
Hydrochloric Acid (HCL) 20%	3
Nitric Acid (HNO3) 10%	3
Acetic Acid (CH3COOH) 10%	3
Ksilen 2	3
Ethyl Alcohol	3
Solvents	3
Sodium Hydroxide (NaOH) 20%	3

■ MECHANICAL STRENGTH

Heat	Pedestrian Traffic	Mechanical Strength	Chemical Resistance
+10°C	72 Hours	5 Days	10 Days
+20°C	24 Hours	4 Days	7 Days
+30°C	18 Hours	2 Days	5 Days

■ WAITING TIME BETWEEN FLOORS

Heat	Pedestrian Traffic	Mechanical Strength
+10°C	30 Hours	3 Days
+20°C	24 Hours	2 Days
+30°C	16 Hours	1 Days

All technical information stated in this product data sheet is based on laboratory tests. Actual values may vary due to circumstances beyond our control.

İZERSAN YAPI MALZ.SAN VE TİC.LTD.ŞTİ.

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DFC 300**■ TECHNICAL SPECIFICATIONS AND PERFORMANCE VALUES**

Density (Mixture)	1,45±0,05 gr/cm ³ 20-c TS EN ISO 2811-1
Solids Mixture (%)	100 by weight
Shore D	75-80
Application Thinner	Not diluted
Mixing Ratio	By weight: A/B:19/5
Pot Life	35-40 Minutes /23°C, 200 g, DiN 16945
Method of Application	Trowel

The technical specifications written above were written according to the test results performed under 23°C and 50% relative humidity conditions. Values may vary under different temperature and humidity conditions.

■ APPLICATION FEATURES**SURFACE PREPARATION**

For Concrete Surfaces: The concrete surface must be clean, solid and have sufficient compressive strength (>25N/mm²), tensile strength >1.5N/mm². The concrete floor to be insulated must be solid and there should be no moving pieces on the surface. The sherbet layer on the surface must be removed. The concrete to be insulated must be at least C25, preferably C30 - C35 standard.

Concrete Surface Quality: The surface should be cleaned using pressurized water and removed from oil, grease, dirt, mortar particles and dust. Concrete surfaces should be prepared to obtain an open-pore surface by removing the cement laitance using abrasive equipment.

It must also be completely free of mold release agents, cement residue shavings, loose particles and uncured membranes. The sherbet layer on the surface must be removed.

(Shot-Blast, Rota Tiger, etc.) If the surface is too shiny, it should be roughened by milling or sandblasting and the specific surface should be increased. Concrete cracks should be cut in a V shape and cleaned, false joints should be cleaned.

■ SURFACE PREPARATION

Surface Temperature	Minimum + 10°C / Maximum + 30°C
Ambient temperature	Minimum + 10°C / Maximum + 30°C
Material Temperature	It should be between + 10°C and +30°C
Surface Moisture Content	Moisture rate in concrete is max. It should be 4%
Relative Humidity	It should be at most 80%.
Dew Point	During application, the ground temperature should be at least 3°C above the dew point.

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■ APPLICATION FEATURES

Mixing Ratio: A/B =19/5 (by weight)

Mixing: Component A is mixed with a low speed (300-400 rpm) mechanical mixer until it becomes homogeneous. Then component B is added into component A and mixed continuously for 2 minutes until the mixture becomes homogeneous. Avoid overmixing to minimize air entrainment.

Application Conditions: Check the relative humidity and dew point before application. If the conditions are suitable, start the application. DFC 300 Epoxy Selfleveling is poured onto the primed surface and spread on the surface with a notched trowel. Then, it is passed over with a hedgehog roller to remove the entrained air. The prepared mixture is max. it should be consumed within 40 minutes. Repair and leveling operations are carried out at least 8 hours after the previously applied epoxy primer material.

Application Notes:

Do not apply the product in areas where moisture escapes from the surface.

Freshly applied DFC 300 should be kept away from moisture, condensation and water for at least 24 hours.

Dirty areas as well as uneven surfaces cannot be covered with thin coatings. For these reasons, both the surface and adjacent areas should always be prepared for application and cleaned thoroughly before application. If it is necessary to heat the environment, use electrical systems. Fossil fuel systems affect surface appearance. Sun exposure of the surface may cause the color to change. This differentiation does not affect the performance of the material at all.

Application should not be made in extremely hot, rainy or windy weather or if the ambient and surface temperature is below +10 °C or above +30 °C.

In applications to be carried out at appropriate temperatures, the materials to be used should be brought to the application area and stored 1-2 days in advance and ensure that they adapt to the environmental conditions. In extremely cold applications, the ambient and ground temperature should be increased with the help of heaters, and the packages should be conditioned at +20 +25 °C to make them ready for use in order to increase the workability of the material. Epoxy and polyurethane floor coatings should be applied by professional applicators.

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■ SAFETY PRECAUTIONS

During use and storage, appropriate work clothes, glasses, gloves and masks should be used for worker health and safety. Eye, mouth and skin contact should be avoided. The contacted area should be washed with clean of water. In more dangerous situations or if the product is swallowed, a specialist doctor should be consulted immediately. Food and drink should not be allowed into application areas. It should be kept out of reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

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■ LEGAL WARNING

Applications that may occur if the product is used for purposes other than its intended purpose or if the above-mentioned conditions are not complied with: from the mistakes of İzersan Yapı Malz. San. Ve Tic. Ltd. Şti. is not responsible.

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