CementDEC® 3K

Self Leveling
High performance Concrete Flooring System

Polyurethane Based for industrial self leveling flooring system
Excellent adhesion to all construction materials



EAN-Code
6150604052081

Description

CementDEC® 3K Polyurethane Based Specially formulated with cement-based mortar for self leveling flooring system. For worn and old floors Highly performance all industrial floors applications. Excellency, highly hardness and compression strength (>70 MPa)

CementDEC® 3K is recommended for conditions requiring maximum high mechanical strength and exceptional resistance to physical and chemicals; topcoat use is optional due to its incredibly smooth surface after application. if requested : We recommend our Full aliphatic water based TopcoatDEC® SF-2K as a topcoat application.

CementDEC® 3K is a non-toxic product in case of contact with food products and drinking water. It can be used indoors and outdoors – in outdoor application slight discoloration is expected. if requested : We recommend our Full aliphatic water based TopcoatDEC® SF-2K product for 100% resistance to sunlight in outdoor applications.

Important Features

CementDEC® 3K Polyurethane Based
- Fast curing
- Warm water resistance (80 °C - 100 °C).
- Excellent biological and chemical resistance.
- Can be applied to humid substrates.
- Non-toxic
- Hygienic material
- Negative hydrostatic pressure resistant.

Packaging Types

Polyurethane - Part A	3.50kg
Polyurethane - Part B	3.50kg
Cement - Part C	17kg

Features / Benefits

- Excellent adhesion to all construction materials
- High Impact Resistance
- Abrasion and Scratch Resistance
- High Chemical Resistance
- Minimal Shrinkage
- Sound, monolithic, wear resistant coat.
- Delivers a smooth surface and the use of a topcoat is optional (see above)
- Resistant to a wide range of temperature, non-combustible.

Application Areas

- Heavy duty industrial floors
- Protection of industrial floors
- In food and beverage industry
- Chemical industry floors
- Pharmacy floors
- Healthcare area floors
- Electronics store floors
- Mechanical engineering floors
- Anti-static, non-sparking, anti-slip, anti- bacterial, non-dust and decorative coatings.

Technical Data

Potlife :	± 25 minutes (20 °C)
Touch Drying Time :	± 3 hours (25 °C)
Drying Time :	24 hours (25 °C)
Walkable After :	24 hours
Service Temperature :	(-15 °C to +100 °C)
Mixing Ratio :	1:1 Ratio

Consumption

- Indicatively around 2 kg/m²/mm thickness.

Application Procedure

Clean the surface using a high pressure washer if possible.

Remove oil, grease and wax contaminants. cement laitance, loose particles,mould release agents, cured membranes must also be removed.

The application surface must be dry.

Priming:

Priming is required before application water based EpoxyPRIMER® 2K.

Mixing CementDEC® 3K

Mix (Part/C cement-based mortar and Polyurethane Based part/B Blend parts for 2 minutes) and then add part A. Mix for 3 minutes until the liquid becomes homogeneous.

Use a spiral slow- speed mixer (150-200rpm).

The consistent mix must be spread up to a recommended thickness of 4-8mm as soon as the mixing is properly done.

Use steel trowel to smooth the new coating.

Use a spike roller to free the closed gases.

Cleaning

Clean your tools and equipment with Cellulosic thinner during the application phase.

Technical Specifications

PROPERTY	UNITS	METHOD	SPECIFICATION
Specific weight	gr/cm^3	-	1.85
Pot life (20 °C & 55% RH)	min	Internal method	12-15
Tack free time, @ 77 oF (25 °C) & 55% RH	hours	-	3

The cured coating:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-15 to 100
Max. temperature short time (shock)	°C	-	250
Hardness	Shore D	-	>80
Tensile strength at break @ 23 °C	Kg/cm² (N/mm²)	-	>90 >9
Water vapor transmission	gr/m².hr	-	Not applicable
Light traffic at 25 °C & 55% RH	hours	-	24
Heavy traffic	days	-	3
Adhesion to concrete	Kg/cm² (N/mm²)	-	>30 >3
Compression strength	(N/mm²)	-	>60
Shrinkage	%	-	Not applicable
Resistance to acids, solvents, lubricants etc.	-	-	Individual data upon request

Chemical resistance tests over 12-month period:

EXPOSED TO	RESULT
Acetic acid 10%	tiny holes appear after 15 days
Acetone	soft after 15 days
Alcohol 10%	OK
Ammonia 10%	tiny holes appear after 25 days

Technical Specifications

EXPOSED TO	RESULT
Chloride 10%	OK
Chloride acid 10%	OK
Citric acid 10%	OK
Cresol	damaged after 7 days
Distilled water	OK
Drinking water	OK
Ethyl glycol acetate	OK
Fatty acids	OK
Formic acid 10%	tiny holes appear after 10 days
Gasoline	OK
Hydrogen peroxide 10%	OK
Lactic acid 25%	OK
Methylene chloride	damaged after 2 day
Nitric acid 10%	OK
Potassium hydroxide 10%	OK
Sea water	OK
Sodium hydroxide 10%	OK
Sodium hypochlorite 3%	OK
Sugar 30%	OK
Sulfuric acid 10%	OK
Tannic acid	OK
Xylene	OK