Technical Data Sheet
EPOVARNISH 041

Product Description

EPOVARNISH 041 is a two components, solvent-free epoxy varnish for floors. It is classified as SR-B2,0-AR0,5-IR4, according to the EN 13813 standard.

Intended Use

EPOVARNISH 041 is used for coating cement-based floors with high demands for mechanical or chemical resistance. It offers great toughness, high durability against abrasion and chemicals (alkalis, dilute acids, water, mineral oils and several solvents).
It is suitable for industrial areas, small industries, warehouses, department stores, hotels, garages, high traffic areas, cars repair shops, etc.

Technical Data

Gloss level (GU 60 °)	Gloss (>80 GU)
Density	1,08 gr/ml
Mixing Ratio per weight	100A:53B
Pot Life	about 40 min in 23ºC
Substrate Temperature	+12°C to +35°C
Ambient Temperature	+12°C to +35°C
Substrate Humidity Content	<4%
Relative Atmospheric Humidity	<70%
Hardening Time (23°C)	about 10 h in 23ºC
Overcoating	after 24 h in 23ºC
Walkability	after 24 h in 23ºC
Complete Hardness	7 days
Hardness (Shore D, ASTM 2240)	80
Abrasion Resistance (ASTM D 4060 TABER TEST, in proportion 1:1 to CS 10/1000/1000)	72 mg
Compressive Strength	103 N/mm2

MANUFACTURE PAINTS AND VARNISHES TZELOS EV. ANASTASIOS & Co E.E.
5A SQUARE 570 22 SINDOS - INDUSTRIAL AREA OF THESSALONIKI
TEL: +302310796110, FAX: +302310723096, www.tetralux.gr, e-mail: contact@tetralux.gr

(DIN 53452)	
Flexural Strngth (DIN 53452)	68 N/mm2
Impact Strength (EN ISO 6272)	IR4
Adhesion Strngth (EN 13892-8)	≥ 2,5 N/mm2 (concrete breaking)
VOC (Volatile Organic Compounds)	EU limit value for this product Category A/j, Type: SB, Two-pack reactive performance coatings for specific end use such as floors, is 500g/l (2010). This product contains max 499g/l

Substrate Preparation

The surface must be dry, clean, stable, free from materials that prevent adhesion, such as dust, loose materials, grease etc. and protected against rising humidity.
The following specifications must be kept:
Concrete quality: at least C20/25
Floor mortar quality: cement content at 350 Kg/m3
Aging: at least 28 days
Substrate humidity content < 4%
Depending on the nature of the substrate, appropriate pre-treatment should be performed, such as brushing, grinding, sandblasting, water blasting, shot blasting, etc. Then, the surface should be cleaned from dust with a high suction vacuum cleaner.

Application

Coating Mix

Components A & B are packed in dispensers with predetermined mixing ratio. Mixing both components lasts about 3 minutes using a low-speed drill (300rpm). It is important that mixing is applied to the walls and the bottom of the dispenser as well, for component B to be evenly distributed.

Self-levelling Coat Application

The mixture must be applied by pulling with a notched trowel.
EPOVARNISH 041 Consumption (A+B): 1,1 kg/m^2/mm
To release the trapped air in the applied self-levelling coating, a special pin roller must firstly be applied to the surface.

Painting Application
A+B mixture is applied by roller in two layers. The second layer is applied when the first one dries, but within 24 hours from the initial application.
EPOVARNISH 041 Consumption (A+B): 0.200-0.250 kg/m^2

Tools Cleaning
Exactly after application using 809 solvent.

Packaging
6,54kg A and 3,46kg B (predetermined mixing ratio)

Storage lifespan
12 months in the initial sealed package, in area protected against humidity and solar radiation. Recommended storage temperature from +5°C to +35°C.

Remarks
-Low temperature or humidity may prolong hardening time, whereas high temperature may reduce it.
-Application must be done at least 4 weeks after the construction of the new mortar floor.
-Exposing the layering to ultraviolet radiation may cause the phenomena of chalking and fading of colours over time.
-Immediate application of the mixture after mixing is recommended in order to avoid high temperatures and its polymerization in the dispenser.
-Substrate must be at least 3°C over dew point in order to reduce the risk of condensation or the creation of bubbles in the surface's finishing.

Precautions
Consult the Product Safety Data Sheet.