

# CONIPROOF 491/1

Two component polyurethane wear coat, tested in the system for parking decks

## Product description

CONIFLOOR 491/1 is a two component, solvent free, polyurethane wear coat for substrates with cracks or where cracks may occur.

## Fields of application

CONIPROOF 491/1 is part of the tested car park system CONIPROOF PPC dl as a wear coat and tested according to EN 1504-2 for surface protection.

## Properties

CONIFLOOR 491/1 with its excellent abrasion resistance is especially used as a wear coat for car parking areas and applied in combination with CONIPROOF 490/1 (membrane).

CONIFLOOR 491/1 is general overcoated by a following top coat CONIPROOF 590/1 or CONIPROOF 591/1.

## Technical Data

<b>Mixing ratio</b>	in parts by weight		100 : 24
<b>Density</b>	mix, at 23 °C	g/cm <sup>3</sup>	1.40
<b>Viscosity</b>	mix, at 23 °C	mPas	2000 - 3000
<b>Processing time (25 kg working packs)</b>	at 10 °C at 20 °C at 30 °C	min. min. min	40 30 15
<b>Re-coating interval / ready for foot traffic</b>	at 10 °C at 20 °C at 30 °C	min. h min. h min. h	24 16 10
<b>Substrate and application temperature</b>	minimum maximum	°C °C	10 30
<b>Permissible relative humidity</b>	maximum	%	75
<b>Ready for mech. strain light mech. strain</b>	at 20 °C at 20 °C	d d	7 3
<b>Shore D hardness</b>	after 7d /23°C		≥ 70
<b>Elongation</b>	after 7d /23°C	%	≥ 53
<b>Tensile strength</b>	after 7d /23°C	N/mm <sup>2</sup>	≥ 13
<i>Above figures are guide values and should not be used as a base for specifications!</i>			

### Application method

CONIFLOOR 491/1 is supplied in the correct proportions of component A (resin) and component B (hardener). Pour component B into component A and ensure that the pail containing component B is emptied completely.

To achieve a homogenous mix, thoroughly mix with a slowly rotating mixing device at about 300 rev/min.

Ensure that the mixing device reaches side and bottom areas of the mixing vessel. The mixing process takes at least 3 minutes and should be performed until the blend is homogenous and streak free.

Pour the mix into another clean pail and mix it again for 1 additional minute.

The temperature of the components should be between 15-25 °C.

CONIFLOOR 491/1 can then be applied directly to the pre-treated substrate with the minimum consumption according the system build-up of CONIPROOF PPC dl as the wear coat. CONIPROOF 491/1 is filled while constantly stirring with 25% with fire dried quartz sand with a grain size of 0.1-0.5mm.

CONIFLOOR 491/1 is applied using a rubber squeegee, scraper or a notched trowel. The toothing of the tool needs to be adjusted to the calculated consumption per 1m<sup>2</sup>.

Working life and curing time of CONIPROOF 490 are influenced by the ambient and substrate temperature. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, re-coating interval and open time. High temperature and humidity accelerate chemical reactions so the contrary is true.

Within this period, contact with water can cause foaming on the surface of the coating.

The relative humidity level may not exceed 75%.

To fully cure the material, the substrate and working temperature must not fall below the minimum.

The time to overcoat CONIPROOF 490/1 as water proofing membrane is approx. 12 to maximum 36 h and depends on the ambient and substrate temperature.

After the pre-treatment the bond strength of the concrete must be at least 1.5N/mm<sup>2</sup>.

After application, the material should be protected from direct contact with water for minimum 36 hours (at 15 °C).

### Consumption

For the right consumption rate of CONIFLOOR 491/1 see the system data sheet to CONIPROOF PPC dl.

### Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 40 or other suitable solvents (e.g. butyl acetate). Never use water or alcoholic solvents as cleaners!

### Substrate condition

Cement bound substrates to be coated must be firm, dry, load bearing and free of loose and brittle particles and substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

A pre-treatment of the substrate by grit or shot blasting, high pressure water jetting, grinding or scabbing including the necessary post-treatment is mandatory.

After the pre-treatment the bond strength of the concrete must be at least 1.5N/mm<sup>2</sup>.

The moisture level must not exceed 4 %.

The temperature of the substrate must be at least 3°C above the current dew point temperature.

The sub-base must contain a moisture barrier (damp proof membrane D.P.M.).

CONIFLOOR 491/1 is applied on the pre-treated and primed sub-base on the water proofing membrane CONIPROOF 490/1.

### Pack size

CONIFLOOR 491/1 is supplied in 25 kg (metal) working packs. Components A and B are supplied in the correct proportions and delivered separately.

### Colour

Standard colour: Grey  
Other Colours on request

### Storage

Store in unopened pails under dry conditions at a temperature range of 15-25 °C.

Do not expose to direct sunlight.

Before use, please see "best before" date on the pail / drum.

### Safety precautions

CONIFLOOR 491/1 is non-hazardous in its cured condition.

For protective measures, transport regulations and waste management please refer to the Material Safety Data Sheet of the product.

### VOC contents

CONIFLOOR 491/1 meets the requirements of the EC directive 2004/42/EC.



**CE-Label:**

See Declaration of Performance.

**CE-Mark according to EN 1504-2**

Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection products and systems for concrete.

Details see CE-conformity mark and conformity declaration.

**CE-Mark according to EN 13813**

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

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