CONIPROOF 492

Two component fast curing high build polyurethane wear coat, tested in use for parking decks

Product description
CONIFLOOR 492 is a two component, fast curing, solvent free, polyurethane wear coat for substrates with cracks or where cracks may occur.

Fields of application
CONIPROOF 492 is part of the tested car park system CONIPROOF PWC su and CONIPROOF PWC sp as a wear coat and tested according to EN 1504-2 for surface protection.

Properties
CONIFLOOR 492 with its excellent abrasion resistance is especially used as a wear coat for car parking areas and applied in combination with CONIPROOF 410 and CONIPROOF 401 and CONIPROOF 413 (membrane).

CONIFLOOR 492 is general overcoated by a following top coat CONIPROOF 591/1 .

Technical Data

Mixing ratio	in parts by weight		100 : 48
Density	mix, at 23 °C	g/cm^3	1.05
Viscosity	mix, at 23 °C	mPas	1700
Processing time (25 kg working packs)	at 10 °C at 20 °C at 30 °C	min. min. min	35 25 15
Re-coating interval / ready for foot traffic	at 10 °C at 20 °C at 30 °C	min. h min. h min. h	8 4 3
Substrate and application temperature	minimum maximum	°C °C	5 30
Permissible relative humidity	maximum	%	75
Ready for mech. strain **light mech.Strain** **. chemical strain**	at 10 °C at 20 °C at 30 °C	d d d	2 1 1
Shore D hardness	after 28d /23°C		70
Elongation	after 7d /23°C	%	≥ 40
Tensile strength	after 7d /23°C	N/mm^2	≥ 15
Above figures are guide values and should not be used as a base for specifications!			

Application method
CONIFLOOR 492 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 492 can then be applied directly to the pre-treated substrate with the minimum consumption according the system build-up of CONIPROOF PWC su and CONIPROOF PWC sp as the wear coat.

CONIFLOOR 492 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^2.

Working life and curing time of CONIPROOF 492 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 410 or CONIPROOF 401 as water proofing membrane is approx. 0.5 to maximum 1 h and depends on the ambient and substrate temperature. The overcoat interval for CONIPROOF 413 is approx.. 4 h to maximum 12 hours.
After the pre-treatment the bond strength of the concrete must be at least 1.5N/mm^2.

After application, the material should be protected from direct contact with water for minimum 2 hours (at 15 °C).

Consumption
For the right consumption rate of CONIFLOOR 491/1 see the system data sheet to CONIPROOF PWC su and CONIPROOF PWC sp.

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^2.

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 492 is applied on the pre-treated and primed sub-base on the waterproofing membrane CONIPROOF 401; CONIPROOF 410 and CONIPROOF 413

Pack size
CONIFLOOR 492 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

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 492 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 492 meets the requirements of the EC directive 2004/42/EC.

CE

See Declaration of Performance.

CE-Label:

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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