

CONIPROOF 590/1

2-component, Epoxy Topcoat, Pigmented for primed broadcasted surfaces and tested in the systems for parking decks

Product description

CONIPROOF 590/1 is a two component, solvent free epoxy topcoat, pigmented for broadcasted surfaces.

Fields of application

CONIPROOF 590/1 is part of the tested car park system CONIPROOF PES, CONIPROOF PPC dl and CONIPROOF PPC sl and tested according to EN 1504-2 for surface protection.

CONIPROOF 590/1 is used as a coloured top coat to finish the system build-up. CONIPROOF 590/1 is used for indoor application with low to high mechanical strain.

Properties

CONIPROOF 590/1 exhibits high mechanical properties and is easy to apply. Due to its hard and tough properties the coating CONIPROOF 590/1 is still slightly elastic.

CONIPROOF 590 is easy to clean and resistant to water, sea and waste water, a variety of alkaline substances, diluted acids, brine, mineral oils, lubricants and fuels.

The yellowing which occurs when CONIPROOF 590/1 is exposed to UV light does not affect its mechanical properties.

Technical Data

Mixing ratio	in parts by weight		100 : 23
Density	mix, at 23 °C	g/cm ³	1.41
Viscosity	mix, at 23 °C	mPas	1800
Processing time (25 kg working packs)	at 10 °C at 20 °C at 30 °C	min.	45 30 20
Re-coating interval / ready for foot traffic	at 20 °C	minimum h maximum h	18 36
Substrate and application temperature	minimum maximum	°C °C	10 30
Permissible relative humidity	maximum	%	75
Ready for	at 20 °C at 20 °C at 20 °C	d d d	5 1 7
mech. strain			
Light mech. strain			
chem. strain			
Shore D hardness	after 28 d		65

Above figures are guide values and should not be used as a base for specifications!

Application method

CONIPROOF 590/1 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.

CONIPROOF 590/1 can be applied directly to the pre-treated substrate (broadcasted epoxy primer, broadcasted scratch primer or broadcasted wear coat. For this see the system data sheets to CONIPROOF PES, CONIPROOF PPC dl and CONIPROOF PPC sl.
CONIPROOF 590/1 is applied using a rubber squeegee and followed by back rolling.

Working life and curing time of CONIPROOF 590/1 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.

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

After application, the material should be protected from direct contact with water for approx. 36 hours (at 15 °C). Within this period, contact with water can cause carbamate and/or tackiness on the surface of the coating.

The relative **humidity** level may not exceed **75%**.

Consumption

The consumption rate of CONIPROOF 590/1 is approx. 0.6 to max. 0.9 kg/m² and also depend on the grain size of the used silica sand for broad casting (here with size 0.3-0,8 mm). If the grain size 0.6-1.2mm in the system CONIPROOF PES is used, the consumption is min. 0.9 to max. approx. 1.2 kg/m².

Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 44 or e.g. isopropanol.

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/mm².

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.).

After the pre-treatment of the substrate the bond strength of the concrete must be at least 1.5N/mm².

Pack size

CONIPROOF 590/1 is supplied in 25 kg (metal) working packs. Components A and B are supplied in the correct proportions and delivered separately.

Colour

Colours upon 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

CONIPROOF 590/1 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

CONIPROOF 590/1 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.