CONIFLOOR EP 155 CR AS

Two-part EP conductive primer, for antistatic, chemical resistant CONIFLOOR coatings

Product description
CONIFLOOR EP 155 CR AS is a conductive, solvent-free, low viscosity, black pigmented, 2-component conductive water-based epoxy primer.

Fields of application
CONIFLOOR EP 155 CR AS is used as a conductive layer (grounding) on with CONIFLOOR EP 125 CR or other primers primed substrates in our antistatic, chemical high resistant indoor flooring systems where anti-static properties are required.

Properties
CONIFLOOR EP 155 CR AS exhibits good adhesion to non-porous substrates (e.g. on primer CONIFLOOR EP 125 CR) and anti-static properties.

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Technical Data

Mixing ratio	in parts by weight		A: B	44 : 100
Density	mix, at 23 °C		g/cm³	1.1
Viscosity	mix, at 23 °C		mPas	620
Working time (9.8 kg working packs)	at 10 °C at 20 °C at 30 °C		min min min	60 45 20
Re-coating interval	at 20 °C	min. max.	h h	14 48
Ready for foot traffic	at 10 °C at 23 °C at 30 °C		h h h	min. 24 min. 12 min. 8
Substrate and application temperature	minimum maximum		°C °C	12 30
Max. permissible relative humidity			%	75
Tensile bond strength			N/mm²	≥ 1.5

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

CONIFLOOR EP 155 CR AS is always top coated with the conductive coatings (e.g. CONIFLOOR EP 455 CR AS).

CONIFLOOR EP 155 CR AS is used in the system

- CONIFLOOR IEC AS
- CONIFLOOR IEC AS SR

or other systems from CONICA.

Application method

Please also note the information in our general processing guidelines.

CONIFLOOR EP 155 CR AS is supplied in working packs which contain the correct proportions of component A (resin) and component B (hardener).

Mixing
Before mixing, precondition both A and B components to a temperature of approximately 15°C up to 25 °C.

Pour component B into component A and ensure that pail containing component B is emptied completely. Scrape the sides and the bottom of the pail several times to ensure complete mixing. Do not mix by hand, mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at 2 - 3 minutes.

Keep the mixer blades submerged in the material to avoid introducing air bubbles. Do not work out of the original drum / pail.

After proper mixing to a homogeneous consistency pour the mixture into a fresh pail and mix for another minute.

CONIFLOOR EP 155 CR AS should be applied when the ambient temperature is constant or falling as this will decrease the risk of bubble formation due to evaporation of air that is enclosed in the concrete.

CONIFLOOR EP 155 CR AS is always applied on a prepared and primed substrate by rolling, the self-adhesive copper tapes to connect the conductive primer to the earth point must be installed before.

Consumption
The consumption of CONIFLOOR EP 155 CR AS used as conductive primer is between 0.11 - 0.15 kg/m^2.
If the substrate temperature is 15°C or below, the dilution with water up to 3 - 5 % by weight is possible.

Important:
Unevenness >0.5mm of the substrate must be equalized by an additional scratch coat. For additional filling of CONIFLOOR EP 125 CR or others fire dried silica sand grain size 0.1-0.3mm is recommended. For this see also the technical data sheet to CONIFLOOR EP 125 CR and the system data sheets of CONIFLOOR IEC AS and CONIFLOOR IEC AS SR and others.

Temperatures
The working life and curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly.

To fully cure the material, substrate and application temperature should not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 24 h (at 20° C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed else the adhesion to the following coating is impaired.

Note for checking the conductivity:
To check the conductivity, the guideline values actual state of the art report "Conductive coatings for industrial floors" Deutsche Bauchemie e.V. recommended. Note: Before applying the conductive coating, the CONIFLOOR EP 155 CR AS conductive layer must be measured.

Surface of coating system	Number of measurements
< 10 m²	1 measurement / m²
10 – 100 m²	10 – 20 measurements
> 100 m²	10 measurements / 100 m²

Distance of the measuring points at least 50 cm. Measured e.g., with a Metriso 2000 or 3000 measuring device. The measured value of the conductive layer should not exceed 10-15 kOhm. If the required measured value is not reached, further measurements must be done within 50 cm, which should then reach the measured value.

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

Substrate condition
All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean floors of oil, grease, and rubber skid marks, paint stains and other adhesion impairing 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 only necessary, when the layer is soiled, or the re-coating intervals have been exceeded.

After surface preparation the tensile strength of the concrete should exceed 1.5 N/mm2 (check with an approved pull-off tester at a load rate of 100 N/s).

The moisture level of the sub-base needs to be less than 4 %.

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

There must be a regular D.P.M (damp proof membrane**)** between the stone base and the slab.

Pack size
CONIFLOOR EP 155 CR AS is supplied in 9.8 kg working packs.

Colour: Black
Comp. A is transparent, comp. B is black

Storage
Store in original closed packing under dry conditions at a temperature range of 15 - 25 °C.

Do not expose the drums to direct sunlight.

Please check "best-before" date on the pail before usage.

Safety precautions
CONIFLOOR EP 155 CR AS 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 EP 155 CR AS meets the requirements of the EC directive 2004/42/EC.
The limit value for products ready for use (product type according to table IIA j Type wb) is:
Level II (from 2010) <140 g/l VOC.
When ready to use, this product contains less than 140 g/l VOC.

CE and UKCA marking:
See Declaration of Performance

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