TRADECC

Products and techniques for construction and chemical industry

CE

TECHNICAL DATASHEET

PC® 5283/NV

1. Description

The PC® 5283/NV is a solvent-free 2-component epoxy coating system with a very good chemical resistance and color retention.

2. Applications

- The **PC® 5283/NV** as an epoxy coating used for the protection of the support (concrete, repair of concrete with PC® 5187,…).
- The **PC® 5283/NV** as an epoxy paint for the protection of steel structures.
- The **PC® 5283/NV** as a colorfast topcoat on an epoxy floor system.

There is also an anti-slip variety of PC® 5283/NV, namely PC® 5283/SR. This is a durable 2-component structural paint with good chemical resistance and colour retention (see PC® 5283/SR technical file).

3. Properties

- Good chemical resistance
- Good colour retention
- Good mechanical properties

4. Technical Data

- A-component (resin)
  Colour: available in any color
  Viscosity (20°C): 11340 mPas
  Density: 1.40 kg/dm3
- B-component (hardener)
  Colour: available in any color
  Viscosity (20°C): 1265 mPas
  Density: 1.03 kg/dm3
- Density of mixture: ± 1.26 kg/dm3
- Evaluation of the reactivity at 20°C: time needed for a mixture of 900 g PC® 5283/NV A and 345 g PC® 5283/NV B to rise in temperature from 20°C to 40°C: ± 30 minutes
- Pot life (20°): ± 45 minutes
- Mixture ratio (weight): 3 kg A / 1.18 kg B
- Consumption: ± 300 – 500 g/m², depending on the surface
- Pressure resistance (EN 13892-2):
  After 24 h at 20°C: 48 N/mm²
  After 7 d at 20°C: 70 N/mm²
- Bend resistance (EN ISO 178, after 7 d at 20°C): 63.3 N/mm²

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- Abrasion resistance BCA(EN 13892-4): maximum penetration depth is 20 µm
- Impact resistance (EN ISO 6272-2): 2.06 Nm
- Cross-cut adhesion tester (EN ISO 2409): perfect adhesion, GT0 classification
- Hardness Shore D (24 h, 20°C): 71
  Shore D (7 d, 20°C): 82
- Bond strength (EN 1542): 3.4 N/mm² (concrete fracture) with the use of PC® 5001/T as primer.
- Hardening time: The time to wait for placing e.g. an aliphatic polyurethane top coating PC® 6283 TOP 2K Mat type on **PC®5283/NV** is at least 24 hours at 20°C. The time stated is reduced at higher and increased at lower temperatures.
- Application temp.: minimum 10°C, maximum 30°C (both ambient and underground)
- Shelf life: 12 months after the production date in the original, unopened and undamaged packaging, stored in a dry place between 10°C and 30°C.
- Load-bearing: at 20°C after 3 days fully mechanically load-bearing/ at 30°C after 2days / at 10°C after 7 days.

5. Chemical resistance

The samples were immersed in the chemicals for 8 days at 20°C.

Product	Result
Benzene	OK
Dichloormethane	Not OK
Tetrahydrofurane	Not OK
Diethylether	OK
Sulpheric acid 20%	OK
Sulpheric acid 40%	Sp. contact OK
Sulpheric acid 98%	Not OK
NMP	Not OK
Toluene	OK
Nitric acid 20%	OK
Nitric acid 40%	Sp. contact OK
Nitric acid 68%	Not OK
Acetone	Sp. contact OK
Methanol	OK
Hydrochloric acid 37%	OK
Phosphoric 40%	OK
Phosphoric 85%	Sp. contact OK
Ethanol	OK
Acetic acid	Not OK
Formic acid	Not OK
Ethylbenzene	OK
NaOH 50%	OK
Xylene	OK
Dieseloil	OK
BZA	OK
Synthetic oil	OK
Pine oil	OK
Jeffsol EC 50	OK
Propylene carbonate	OK
Gasoline	OK
Ethylene Glycol	OK
Satured solution of ammonium nitrat	OK

- Sporadic contact means that spilled product must be cleaned

- within 4 hours with plenty of water.
- OK means that the integrity and physical characteristics
- remain the same. However a discoloration of the surface
- can appear under the influence of the chemicals.

6. Processing

6.1. PC® 5283/NV as an epoxy coating on concrete

- First apply the Primer PC® 5001/T and let it cure.
- Mix intensely both components of the **PC® 5283/NV**.
- Apply the mixture with a roller or brush.
- Wait at least 24 hours at 20C° between the application of the different layers.
- No vapour pressure may occur: the application of an epoxy floor system is only durable when the support is protected from vapour pressure by means of a suitable sealing foil. (Polyethylene or equal).

6.2. The PC® 5283/NV as an epoxy paint on steel structures

- Sandblast the steel structure according to Class SAE 2,5.
- First apply the Primer PC® 5001/T and let it cure.
- Apply directly the **PC® 5283/NV** on a dry and clean surface.
- Coverage: two layers of 250 g/m², curing time between the layers: 24 hours at 20 C°.

6.3. The PC® 5283/NV as a colorfast topcoat

- Mix intensely both components of the PC® 5283/NV.
- Apply the mixture directly on the epoxy floor type PC® 5283 SL/TES with a roller or brush.
- At 20C° wait at least 24 hours before the application of the different layers.

7. Packing

Component A	3,0 kg.
Component B	1,15 kg.
Standard packing:	4,15 kg.

8. Cleaning

The product if not cured, can be removed with PC® 5900

9. Precautions and safety requirements

- Avoid contact with the skin and the eyes
- Wear safety glasses, gloves and an overall
- For more information: see Material Safety Data Sheet
- Make sure that the products do not come in contact with water or damp

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EN 13813 SR-C70-F6-AR0.2-B3.4-IR2-GT0 **Synthetic resin floor screed material**	
Compressive strength	C70
Flexural strength	F6
Wear resistance BCA	AR0.2
Bond strength	B3.4
Impact resistance	IR2
Adhesion by cross-cut test	GT0
Reaction to Fire	Euroclass F
Release of corrosive substances	SR