



PANADUR

coating your ideas



Technical Data Sheet
PANADUR 2K Primer-DE

Version: 14.05.2018



PANADUR 2K Primer-DE

PANADUR 2K Primer-DE is part of the PANADUR System to dissipate electrostatic charges and is primarily used for floor coatings. PANADUR 2K Primer-DE is a water-based, two-component electrostatically dissipative intermediate coating on an epoxy resin base.

Range of Applications

PANADUR 2K Primer-DE is used as conductive intermediate coating (electrostatically dissipative coating) between the primer PANADUR 2K Primer-WDS and the top coat PANADUR Aroqual S DE.

Technical Data

| | |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Raw material base | 2K epoxy resin (component: A: modified epoxy resin; component B: polyamine hardener, with fillers) |
| Density PANADUR 2K Primer-DE component A (DIN EN ISO 1183-3 bei 23 °C) | Approx. 1.15 g/cm ³ |
| Density PANADUR 2K Primer-DE component B (DIN EN ISO 1183-3 bei 23 °C) | Approx. 1.05 g/cm ³ |
| Density component mixture (DIN EN ISO 1183-3 bei 23 °C) | Approx. 1.10 g/cm ³ |
| Mixing ratio | S. Gebindeetikett |
| Permissible ambient temperature during processing | 10 to 30 °C (non-condensing, at least 3 °C higher than the dew point, rel. humidity < 90 %, note the dew point chart) |
| Permissible surface temperature for application | 10 to 30 °C (to avoid condensation, keep as close to ambient temperature as possible; at least 3 °C above dew point) |
| Permissible material temperature during processing | 15 to 30 °C |
| Permissible relative humidity during processing | Max. 80 % |
| Consumption component mixture | 120 – 200 g/m ² per layer (guidance value, depends on substrate) |
| Shelf life | Stable for at least 6 months (applies to unopened original containers stored at 20 °C; protect from direct sunlight, lower temperatures and humidity; store containers upright and tightly closed) |

Curing Times

| | |
|---------------------------------------------|-------------|
| Time frame for processing: | 0.5 h |
| Time frame for re-coating: | Max. 48 h |
| Ready for light foot traffic after approx.: | 12 bis 16 h |
| Ready for loads after approx.: | 24 h |

These data refer to 23 °C / 50 % relative humidity; times may vary at different ambient conditions.



Physico-Chemical Properties

| | |
|-------|-------|
| Color | Black |
|-------|-------|

Processing Guidelines

General Information:

Before processing starts, all provided documents must be entirely read and understood.

Preliminary tests with original materials under comparable conditions are necessary to ensure material compatibility and adhesion.

It is strongly recommended to keep detailed process records for every process step and the entire duration of the construction site.

It is not allowed to dilute the material with any type of additives, e.g. solvents, diluents or plasticizers.

The application has to be performed by a specialized company. If the scope is a remediation project, the application must be supervised by a qualified expert.

Uses which have not been specifically mentioned in this technical data sheet may only be performed after consultation and written confirmation by PANADUR GmbH.

Surface preparation:

A careful preparation of the surface is absolutely essential for a durable coating.

The following applies in general: See German VOB, Part C, DIN 18363, Section 3.

The substrates carrying capacity must be sufficient (compressive strength of at least 25 N/mm²; universal tear resistance > 1.5 N/mm²). The primer layer of PANADUR Primer-WDS must be carefully prepared (for more information see Technical Data Sheet of PANADUR Primer-WDS).

The surface has to be carefully prepared with PANADUR 2K Primer-WDS. For more information see Technical Data Sheet of PANADUR 2K Primer-WDS.

Installation of conductive copper tape:

After the PANADUR 2K Primer-WDS has cured (see corresponding Technical Data Sheet for curing times), lay at the outer parts of the coating area at 5 – 10 m intervals in accordance with the geometry of the room 1 m strips of PANADUR Conductive copper tape, which is highly conductive and self-adhesive. These are the connection points for the potential equalization, which is realized after the coating process is finished. Per 100 m² of coating area there has to be at least one 1 m strip of PANADUR Conductive copper tape for potential equalization purpose.

Then lay the PANADUR Conductive copper tape in a grid pattern with a perimeter measuring 5 x 5 m and ensure that both the corners and strips for the potential equalization are connected. Care must be taken that all of the surfaces are electrically interconnected (connections must be made to expansion joints, etc. as well). Apply PANADUR Conductive copper tape carefully to the ground, except from the parts which are to be used later as potential equalization.

Following full completion of the coating process, employ a registered specialist electrician to professionally and properly connect the strips of PANADUR Conductive copper tape to allow for equalization of electrostatic potential (grounding point) exactly as described in the PANADUR Aroqual S DE Technical Data Sheet.

Processing of PANADUR 2K Primer-DE:

PANADUR 2K Primer-DE is delivered in two separate containers as component A (resin) and component B (hardener).

Ensure appropriate air ventilation during processing.

Open the containers only right before the application. Mix PANADUR 2K Primer-DE component B thoroughly with appropriate technical equipment, fill the desired amount into another suitable and clean container. Immediately close the containers and use promptly. Then add PANADUR 2K Primer-DE compo-



ment A in the exact mixing ratio (see label on container) and homogenize carefully. Do not scratch the material from the container walls.

Apply the product at temperatures > 15 °C with a roller or brush without introducing bubbles.

Apply the top coat PANADUR Aroqual S DE only after complete curing of the layer of PANADUR 2K Primer-DE. The application of the top coat PANADUR Aroqual S DE has to be performed within 48 h (at 23 °C, 60 % rel. humidity, longer at lower temperatures) after application of PANADUR 2K Primer-DE. Protect the layer of PANADUR 2K Primer-DE from moisture, until the top coat is completely cured.

Tool cleaning:

The used tools / machinery must be thoroughly cleaned immediately after use, and, if necessary, also occasionally, depending on the system type. A proper cleaning agent must be chosen based and tested according to the used system. Please also observe the instructions of the equipment manufacturer.

Note: If the curing process has already started, it is no longer possible to clean the used tools.

Supplemental Products

- PANADUR Conductive copper tape

Storage

Protect material from temperatures > 30 °C, frost (T < 5 °C) and humidity. Do not expose uncured components to direct sunlight. Store and transport containers upright and tightly closed.

Further information may be found in the corresponding safety data sheets.

Protective measures

The relevant protective measures are to be observed during processing and application. These have to be determined by risk assessment. Suitable protective clothing (tight-sealing protective goggles, suitable protective gloves, working clothes with long sleeves and full-length legs, rubber apron, respiratory protection) must be worn during handling and processing.

The instructions and safety advice on the containers should be followed during application.

Skin contact must be avoided.

GISCODE: RE 1

Please also observe the information provided by BG Bau (in German only) on how to handle epoxy resins (<http://www.bgbau.de/gisbau/fachthemen/epoxi>).

Further information may be found in the corresponding safety data sheets.

Environmental Information

Uncured components are harmful to aquatic organisms and may cause longer-term adverse effects in water.

Do not allow individual components and uncured material mixtures to enter water, sewers or groundwater.

Further details may be found in our corresponding safety data sheets for each component.

Important:

When handling our products, the essential physical, safety-related, toxicological and ecological data are to be taken from the appropriate material safety data sheets. Relevant provisions, such as the ordinance of hazardous substances, are to be observed.

Disclaimer:

The information above, in particular the suggestions for processing and use of our products, is based on our knowledge and experience under normal circumstances, provided that the products have been properly stored and used. Due to differences in materials and surfaces as well as diverging operating conditions, it is not possible to guarantee a particular result or to be held liable, regardless of the legal relationship, based on these references or on a verbal consultation unless we are found guilty of intention or gross negligence. In such a case, the user must prove that he/she transmitted all information in writing in a timely and accurate manner to PANADUR GmbH which was necessary for PANADUR GmbH to make an appropriate and promising assessment. The user must evaluate the suitability of a product for its intended purpose. Product specifications are subject to change. Proprietary rights of third parties must be observed. Furthermore, our respective current terms and conditions of sale and delivery apply. Only the latest version of each technical data sheet and the corresponding safety data sheets apply which are to be requested from us.

