

Technical Data Sheet

Desical agrocoating Powergrip is a solvent-free, unfilled and unpigmented two-component reactive polymer based on epoxy resin.

Use

Desical agrocoating Powergrip is used as a primer underneath solvent-free coating systems and for sealing cement-based interior or exterior surfaces such as feed alleys in stables, floors in workshops, dairies, slaughterhouses, etc.

Desical agrocoating Powergrip is the system primer for **Desical agrocoating Basic** or **Desical agrocoating Top F**.

Properties

Desical agroating Powergrip has low viscosity and high capillary action. Therefore, it is able to enter tiny pores and capillaries—even in case of low temperatures. **Desical agrocoating Powergrip** has been designed for use on dry surfaces as well as on surfaces with light residual dampness. The product results in excellent adhesion in case of a residual dampness of concrete of up to 6 % (according to a Concrete Moisture Test (CM Test)). In addition, **Desical agrocoating Powergrip** results in good adhesion on tile, steel, and other critical substrates. However, before use, the intended purpose of application should be checked. **Desical agrocoating Powergrip** seals by producing a film that is vapor proof. This needs to be considered in case of possible vapor pressure of substrates with residual moisture. The smooth seals that are created with **Desical agrocoating Powergrip** are easily cleaned. Once **Desical agrocoating Powergrip** has hardened, it is largely resistant to fodder, silages, oils, fats, and a multitude of other chemical media.

Processing

1. Preparation:

The substrate must be free of dust, solid, and dry and must be secured against rising moisture. Depending on how dirty the surface is, clean and roughen the surface to be coated area by steam blasting, and then by flaming and sweeping it, or by sand blasting or shot blasting it and then sweeping it. This is a prerequisite for adequate adhesion. The shear strength of the

substrate after treatment must be at least 1.5 N/mm².

2. Mixing:

The components resin and the hardener will be supplied in the fixed mixing ratio. Pour all of the hardener into the resin component and mix thoroughly using a power mixer (at no more than 300 rpm)—until a streak free and homogenous liquid has been achieved. After mixing, transfer the mix to a clean container. **Do not process the mix directly from the packaging we supplied.**

At an ambient temperature of about +20° Celsius, the mix can be processed for about 35 minutes. Higher temperatures shorten this time, and lower temperatures extend it. **Desical agrocoating Basic** should be processed at temperatures between +10° and +30° Celsius.

3. Required Tools:

Brush or roller—for applying the primer
Thick adhesive tape for taping and delimiting
Epoxy resin cleaner and pieces of cloth (rags) for cleaning

4. Personal Safety Equipment:

Wear nitrile gloves, protective goggles and spray protection!

Application

1. Coating/Sealing:

Apply the premixed **Desical agrocoating Powergrip** with a roller or a brush. Protect the coated surfaces against dirt and walking until they harden. For 1 m² about 0.3 to 0.4 kg of **Desical agrocoating Powergrip** is needed.

2. Cleaning:

The mixer and tools and possible splatter must be cleaned by means of an epoxy cleaner as long as the splatter is fresh.

3. Drying time:

Desical agrocoating Powergrip as primer: The subsequent layer can be applied if the applied primer is dry to the touch and not sticky. If the subsequent layer cannot be applied within 24 hours (at 20° Celsius), the fresh primer needs to be sprinkled with quartz sand of a grain size from 0.1-0.5 mm.

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Desical agrocoating Powergrip as a sealant:
Prior to sealing, a primer coat must be applied. If the surface should have a good grip, quartz sand can be sprinkled onto the fresh surface layer.

The surfaces (primer/sealer) can be walked on or recoated after 12-16 hours (at +20° Celsius and a relative atmospheric humidity of 50%). After 3 days, the surfaces can be loaded and after 7 days, they can be fully loaded, both chemically and mechanically. In case of lower temperatures, these times increase.

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Color	transparent; yellowish
Mixing ratio (weight)	2:1
Density at 23° Celsius/rel. air humidity of 50%	1.08 g/cm ³
Viscosity at 20° Celsius	about 600-700 mPas
Processing time at 10° Celsius	60-80 minutes
Processing time at 20° Celsius	30-40 minutes
Processing time at 30° Celsius	15-20 minutes
Recoatable at 10° Celsius	after 24-36 hours
Recoatable at 20° Celsius	after 12-16 hours
Recoatable at 30° Celsius	after 6-8 hours
Minimum temperature for processing	10° Celsius at the substrate
Adhesive tensile strength	breaking concrete

Form of Delivery

6-kg combi-metal containers

Development and Production:

**P & T Technische Moertel
GmbH & Co. KG
Bataverstrasse 83, 41462 Neuss**



Application Consulting and Sale:

**Hufgard GmbH
Antoniusstrasse 2-4, 63768 Hoesbach
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The information contained in this leaflet, the application consulting and other recommendations are based on extensive research and experience. All technical data relate to processing temperatures of 20° Celsius. All information is nonbinding and does not relieve users of the need to check whether the products and methods of application meet their performance objectives. This technical data sheet supersedes all previous editions relevant to this product. Desical Agrocoating Powergrip en04/2011