Technical Data Sheet

DESICAL® agroCoating Top-F

Desical agrocoating Top F is a solvent-free, pre-filled and pigmented two-component reactive polymer based on epoxy resin.

Use

Desical agrocoating Top F is used for sealing and final layers of a thickness of 0.5-0.8 mm for surfaces that must be highly resistant both mechanically and chemically. It is used for surfaces on cement-bound, undamaged substrates or on substrates that have already been coated with **Desical agrocoating Basic**. **Desical agrocoating Top F** is especially used for sealing concrete areas--both inside and outside such as feed alleys in stables, flooring in workshops, dairies, and slaughterhouses as well as flooring (or outside slabs) for keeping farm animals.

Properties

Desical agrocoating Top F is viscoplastic, resistant to chemicals, resistant to mechanical stress, physiologically safe (Certificate for the use in the food sector issued by the Institute for environmental Hygiene and Environmental Medicine in Gelsenkirchen) and highly abrasion resistant.
The coating created with **Desical agrocoating Top F** is smooth and extremely convenient to clean.
Once **Desical agrocoating Top F** has cured, 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, rough, solid, and dry. To achieve adequate adhesion, the substrates must be at least cleaned and roughened. Roughening the substrates makes them have a good grip and be open pored. This can be done by means of a high pressure cleaner with a dirt blaster and subsequent flaming--e.g., in the case of used, rough feed alleys--or by means of sand-/shot blasting or by roughening the surface with a grinder--e.g., in the case of new concrete substrates. If the substrates are worn, washed out or uneven, it is advisable to first level the substrate by means of a concrete grinder.

After cleaning, the areas must be carefully swept.

The prepared substrate must first be coated with the primer **Desical agrocoating Powergrip**. Substrates that have already been freshly coated with **Desical agrocoating Basic** do not need any additional preparation if the coating isn't older than 24 hours. Otherwise, the coating must be roughened.

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). At that time, the temperature of both components should be at least 15° Celsius. After mixing, transfer the mix to a clean container. **Do not process the mix directly from the packaging we supplied.**

At a surrounding temperature of about + 20° Celsius, the mix can be processed for about 40 minutes. Higher temperatures shorten this time, and lower temperatures extend it. **Desical agrocoating Top F** should not be processed at temperatures under + 10° Celsius.

3. Required Tools:
Stainless steel trowel for applying the mix
Stainless steel smoothing tool for spreading and levelling
Notched spreader allows for large-area distribution
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 mixed **Desical agrocoating Top F** with a spreader or notched trowel.

Coated surfaces must be protected from pollution and walking while hardening.

For 1 m^2 about 0.7 kg of **Desical agrocoating Top F** is needed.

To make the coating slip resistant, fire-dried quartz sand must be sprinkled on the coating.

Technical Data Sheet

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

3. Drying time:
The areas can be walked on after 24 hours (at a temperature of + 20° Celsius and a relative atmospheric humidity of 60%). 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.

Technical Data

Color	RAL 7032 as well as other colors on request
Mixing ratio (weight)	5:1
Density at 23° Celsius/rel. air humidity of 50%	1.45 g/cm^3
Viscosity at 10° Celsius	about 4,500-5,500 mPas
Viscosity at 20° Celsius	about 2,000-2,500 mPas
Processing time at 10° Celsius	about 60 minutes
Processing time at 20° Celsius	about 40 minutes
Processing time at 30° Celsius	about 20 minutes
Recoatable at 10° Celsius	after 15-30 hours
Recoatable at 20° Celsius	after 10-20 hours
Minimum temperature for processing	10° Celsius at the substrate
Adhesive tensile strength	breaking concrete

Form of Delivery
12-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
Tel. + 49 / (0) 6024 6739-0
email: info@desical.de