

Agrovan 209

Solvent-free epoxy resin coating



Product description

Description/Material	Solvent-free, 2-component epoxy resin coating with low viscosity.
Purpose	Chemical resistant internal-coating for concrete and steel tanks, concrete pipes, impounding and clarifying basins, sewage pipes, and tanks for dry bulk materials as chalk or cement. Do not use for drinking water tanks.
Properties	Because of the low viscosity, the application is preferably be done by airless spray application. For brush or roller application use Agrovan 209 ST.
Colors	<ul style="list-style-type: none"> ■ Hellgrau (light grey). ■ Weiß (white). ■ Other colors on request.
Packaging / container sizes	<ul style="list-style-type: none"> ■ 5 kg (incl. component B). ■ 20 kg (incl. component B).
Storage	Storable in perfectly sealed original containers, dry and cool, for 2 years.
Quality assurance	High quality products require strict control of raw materials and their processing. In-house chemists ensure this quality from receipt to exit of the goods. AvenariusAgro produces according to the TÜV-approved and certified quality management system ISO 9001-2015 and was awarded with the Responsible Care certificate.

Technical data

Consumption	<ul style="list-style-type: none"> ■ Theoretical: 0,81 kg/m² for 500 µm DFT. ■ Practical: approx. 1,10 kg/m² for 500 µm DFT.
Recommended film thickness	<ul style="list-style-type: none"> ■ Agrovan 209, airless spray application: 500 – 1000 µm per working step. ■ Agrovan 209 ST, brush application: approx. 300 µm per working step. ■ Agrovan 209 ST, roller application: approx. 200 µm per working step.
Mixing ratio	85 parts by weight comp. A 15 parts by weight comp. B
Density	Mixed material: 1,6 kg/l.
Pot life	<ul style="list-style-type: none"> ■ At 10°C: 45 minutes. ■ At 20°C: 30 minutes. ■ At 30°C: 15 minutes.
Solids content	By volume: 99 % (DIN 53219).
Drying	Hardening at temperature of 15°C (air and object) in 1 – 2 days.
VOC	See safety data sheets.
Thinner	Do not add thinner!
Abrasion acc. to Böhme	5,88 m ³ per 50 cm ² grinding surface.

Resistance

Chemical	Water, condensation water, deionized water, diluted salt solutions, diluted and concentrated caustic solutions, oils, mineral oils, fuels, dry bulk materials as chalk or cement. Not resistant against concentrated acids, phenols, organic acids as acetic acid, alcohols, acetone, trichloroethylene, benzene.
Mechanical	High impact resistance, good abrasion resistance.
Temperature	<ul style="list-style-type: none"> ■ Dry: up to +120°C. ■ Wet: up to +60°C. Not resistant to warm water at temperature gradient.

Processing

Surface preparation	<ul style="list-style-type: none"> ■ Steel: The surface has to be dry and free of fat, oil, dirt and dust. Sandblasting Sa 2½ (EN ISO 8501-1). If exposed to water: roughness (G) medium, Rz 60 – 100 µm according to DIN EN ISO 8503-1. Max. salt deposits 50 mg/m² (testing method DIN EN ISO 8502-6 or 8502-9). ■ Concrete: The surface has to be dry and free of dirt and dust. Remove cement slurries and loose parts, if exposed to liquids we suggest sandblasting. Pull-off strength at least 1,5 N/mm². At very porous or absorbent concrete, prime with Disboxid 462 EP Grundier- und Mörtelharz.
Coating proposal	Number of coating layers: 1 – 2 x airless spray application. <ul style="list-style-type: none"> ■ Steel: prime with Agrozinc SW or Agropox Minium. Top coat with: Agrovan 209: 1 – 2 x airless spray application, or Agrovan 209 ST: 2 – 3 x brush or roller application. ■ Concrete: if required prime with Disboxid 462 EP Grundier- und Mörtelharz. Top coat with: Agrovan 209: 1 – 2 x airless spray application, or Agrovan 209 ST: 2 – 3 x brush or roller application.
Material preparation	Mix component A and B thoroughly at specified mixing ratio. Mix only the quantity, which can be applicated within the pot life.
Processing temperature	<ul style="list-style-type: none"> ■ Air- and object temperature: at least +10°C, not above 80 % relative humidity, dew point distance at least 3°C. ■ Material temperature: to reach a good consistence for the application, it is necessary to warm up the material to at least +20°C. Depending on the conditions, there is the opportunity to combine thermal insulation of the hose, warming up the material or using a material-flow heater.
Application	<ul style="list-style-type: none"> ■ Airless spray application. Do not add thinner. At temperatures below +20°C, warm up each component of the material to 20 – 25°C. Air-operated airless-spray-equipment with a high compression ratio (1:66) are suitable, electrically-operated equipment is not suitable. Hose diameter at least 9 mm, nozzle size 0,021", spray nozzle pressure 200 – 300 bar, spray angle depending on the object, reversing-nozzles and adjustable nozzles are helpful.
Waiting periods	<ul style="list-style-type: none"> ■ Between Agropox Minium and Agrovan 209: 1 – max. 3 days. ■ Between Agrozinc SW and Agrovan 209: at least 1 day. ■ Between Disboxid 462 Grundier- und Mörtelharz and Agrovan 209: 1 – 2 days. ■ Between Agrovan 209-coatings: at least 16 hours, max. 48 hours (at +20°C). Depending on temperature and drying-conditions. After longer waiting periods, the surface is recoatable after suitable surface preparation.
Final drying period	Through-hardened after 7 days at +15°C. Deep temperatures delay the hardening. Take care of good ventilation of the coated surface.
Coating over old coats	Old coatings must be removed completely, old intact Agrovan 209-coatings must be roughen by sandblasting, small partial repairs are possible after grinding.
Cleaning tools	Verdünnung 215 (Thinner 215). If not in continuous use, clean tools within the pot life.

Regulation governing chemicals

Disposal

Special waste incineration or problematic waste collection points. Do not dispose of together with household waste. Do not allow to enter drainage systems, the soil or water courses. Dispose soiled packaging in the same way as the product itself.

Safety Data Sheet

The safety Data Sheet may be accessed at <http://www.avenariusagro.at>

Technical Information: Agrovan 209, status: 10 / 2016

These technical data were compiled based on state of the art technology and our experience. Due to the many different substrates and conditions of the coated objects, we accept no liability for the technical information provided. The information therefore does not release the buyer / user from his responsibility to professionally test our materials for suitability for his envisaged application, under his pertinent conditions. The validity of this data sheet shall expire following the release of a revised / new PDF version.

Technical advice

Addressing all substrates found in practice and the treatment required when applying this product is beyond the scope of this data sheet. Our technical advisers will gladly assist you with additional detailed information relevant to your specific project.

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