

Agropur HS Color ES

High-solid polyurethane one-layer coating



Product description

Description/Material	Fast-drying, satin-gloss, 2-component coating with integrated corrosion protection.
Binding material / active substances	Polyurethane.
Purpose	For corrosion protection of steel, galvanized steel and aluminium, durable decorative effect. Mainly for industrial-, machine- and equipment coatings.
Properties	Very high resistance against chalking, very high color stability. At low corrosion load suitable as one-layer coating (at 100 µm dry film thickness suitable up to corrosion category C3-medium according to ÖNORM EN ISO 12944).
Colors	According to RAL - color chart. The colors can diverge slightly depending on raw materials.
Packaging / container sizes	<ul style="list-style-type: none"> ■ 10 kg (incl. component B). ■ 30 kg (incl. component B).
Storage	Storable in perfectly sealed original containers, dry and cool, for 18 months. Partial quantities of opened containers have to be used up fast.
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: 0,22 kg/m² for 100 µm DFT. ■ Practical: ca. 0,32 kg/m² for 100 µm DFT.
Recommended film thickness	100 µm dry film thickness, equal to 165 µm wet film thickness.
Mixing ratio	<ul style="list-style-type: none"> ■ 9 parts by weight comp. A 1 part by weight comp. B ■ 7 parts by volume comp. A 1 part by volume comp. B
Density	Ca. 1,3 kg/l (dependent on color).
Pot life	<ul style="list-style-type: none"> ■ At 10°C: approx. 6 hours. ■ At 20°C: approx. 4 hours. ■ At 30°C: approx. 2 hours.
Solids content	<ul style="list-style-type: none"> ■ By weight: 75 %. ■ By volume: 63 % (DIN 53219).
Drying	According to DIN 53150, for 100 µm dry film thickness, at 23 °C: <ul style="list-style-type: none"> ■ Degree of dryness 1: 1 hour ■ Degree of dryness 4: 4 hours. ■ Degree of dryness 6: 6 hours.
Gloss level	Satin-gloss.
VOC	See safety data sheets.
Thinner	Verdünnung 65.

Resistance

Chemical	Good resistance against water, occasionally fumes of acid and caustic solutions, oils, fats and short term exposure to fuels.
Mechanical	The coating is tough-elastic and hard, but not brittle. Largely insensitive to knocks and very abrasion resistant. Aluminium pigmented color shades (RAL 9006 and RAL 9007) are not wipe-proof.
Weather	Resistant to weather, very high resistance against chalking and very high color stability.
Temperature	Dry: up to 150 °C.

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). ■ Galvanized steel: The surface has to be dry and free of fat, oil, dirt and dust. Remove white rust (grinding or sweep-blasting), for outdoor areas sweep-blasting is necessary. ■ Aluminium: The surface has to be dry and free of fat, oil, dirt and dust. Grinding or sweep-blasting, for outdoor areas sweep-blasting is necessary.
Coating proposal	<p>At bright or brilliant colors a second top coat can be necessary for perfect opacity.</p> <ul style="list-style-type: none"> ■ Steel: At low load: 1 x Agropur HS Color ES (80 µm DFT). At stronger load: a) 1 - 2 x Agropox Phosphat, Agropox Filler 60 or Agropox Hydro Primer. 1 x Agropur HS Color ES (80 µm DFT). b) 1 x Agropur HS Color ES (120 µm DFT). Corresponds with corrosion category C3-high according to ÖNORM EN ISO 12944-5. ■ Galvanized steel and aluminium: Indoors without primer 1 - 2 x Agropur HS Color ES. Outdoors: 1 x Agropox Filler 60 or Agropox Hydro Primer 1 - 2 x Agropur HS Color ES.
Material preparation	Stir up well component A. Then mix component A and B at specified mixing ratio. Mix only the quantity, which can be applicated within the pot life.
Processing temperature	Do not work below +5 °C and not above 80 % relative humidity, dew point distance at least 3 °C.
Application	<ul style="list-style-type: none"> ■ Brush. ■ Roller. ■ Airless spray application.
Waiting periods	<ul style="list-style-type: none"> ■ Between priming coats, and between priming and top coat: - if Agropox Filler 60 is used: at least 1 hour, max. 3 days. - if Agropox Hydro Primer is used: at least 4 hours. ■ Between top coats: at least 4 hours. <p>Depending on temperature and drying-conditions. After longer waiting periods, the surface is recoatable after suitable surface preparation.</p>
Final drying period	<ul style="list-style-type: none"> ■ At 10 °C: approx. 14 days. ■ At 20 °C: approx. 10 days. ■ At 30 °C: approx. 7 days. <p>Take care of good ventilation of the coated surface.</p>
Coating over old coats	Old Epoxy- or Polyurethane-coatings: grinding or sweep-blasting, free of dust. When in doubt, coating a test area is recommended. If the surface gets partially overcoated, then make a color comparison in advance.
Cleaning tools	Verdünnung 65 (Thinner 65). 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: Agropur HS Color ES, status: 02 / 2017

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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