

# Agrozinc ES

Ethylsilicate zincrich primer



## Product description

Description/Material	Fast drying, 1-component, low solvent content, highly pigmented zinc-rich primer, based on ethylsilicate; high heat resistance.
Purpose	High quality universal zinc-rich primer for corrosion protection of all kinds of steel constructions, and for highly heat-resistant coatings and friction surfaces. Without a top coat useable as a shop primer.
Properties	The film is hardening under the influence of humidity, so Agrozinc ES can also be applied at high humidity or fog. 1-component, so no mistakes at mixing. Agrozinc ES is hardening crack-free up to 150 µm dry film thickness. By atmospheric influences water-insoluble zinc compounds are formed, which cement the film and make it even more resistant. Do not overcoat with oil- or alkyd-coatings.
Colors	Grey.
Test certificates / Approvals	Determination of coefficient of friction acc. to TL/TP-KOR-Stahlbauten.
Packaging / container sizes	25 kg.
Storage	Storable in perfectly sealed original containers, dry and cool, for 9 months. Agrozinc ES is sensitive to moisture, so close already opened containers airtight. After longer storage time: stir/mix very well before use.
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"> <li>■ Theoretical: 0,17 kg/m<sup>2</sup> for 40 µm DFT.</li> <li>■ Practical: approx. 0,25 kg/m<sup>2</sup> for 40 µm DFT.</li> </ul>
Recommended film thickness	40 µm dry film thickness, equal to approx. 65 µm wet film thickness.
Density	2,56 kg/l.
Solids content	By volume: 62 %.
Flash point	19 °C.
Drying	According to DIN 53150, for 40 µm dry film thickness, at 23 °C: <ul style="list-style-type: none"> <li>■ Degree of dryness 1: 7 min.</li> <li>■ Degree of dryness 4: 15 min.</li> </ul>
VOC	See safety data sheets.
Thinner	Verdünnung 202.
Coefficient of friction	>0,5 (according to TL/TP-KOR-Stahlbauten, Anhang E Blatt 85).

## Resistance

Chemical	Water, condensation water, water-free solvents; not resistant against acids and caustic solutions.
Mechanical	High resistance.
Temperature	Dry heat: up to 500 °C, for a short time up to 600 °C.

## Processing

Surface preparation	<p>■ <b>Steel:</b> The surface has to be dry and free of fat, oil, dirt and dust. Sandblasting Sa 2½ (EN ISO 8501-1). Roughness (G) fine, 25 - 60 µm acc. to DIN ISO 8503/1.</p> <p>■ <b>Steel, friction surfaces:</b> The surface has to be dry and free of fat, oil, dirt and dust. Sandblasting Sa 3 (EN ISO 8501-1). Roughness (G) medium, 60 - 100 µm acc. to DIN ISO 8503/1.</p>
Coating proposal	If no top coat is planned: 2 x Agrozinc ES. As a primer under top coats: 1 - 2 x Agrozinc ES.
Material preparation	Stir/mix well before use (with an electric mixer). Also while application it is recommended to stir/mix regularly.
Processing temperature	<p>■ Relative humidity: processing between 55 - 80 % relative humidity.</p> <p>■ Surface temperature: do not work below +5 °C and not above +50 °C surface temperature.</p> <p>■ Dew point distance at least 3 °C.</p> <p>■ Curing happens only above 0 °C.</p>
Application	<p>Airless spray application is recommended. To avoid nozzle blockages, it is recommended to sieve the paint material before use. Spray nozzle pressure ≥ 200 bar, nozzle size 0,5 mm, spraying angle 60 - 80 ° (continuous adjustable nozzles prove very well). Add max. 5 % Verdünnung 202 (Thinner 202).</p> <p>Air spray application - cup gun: add max. 10 % Verdünnung 202 (Thinner 202).</p> <p>Absolutely avoid dry spraying (too big spray distance).</p> <p>Agrozinc ES can also be applied by brush or roller. Because of its fast drying time, this is only recommended for small areas or repair coats.</p>
Waiting periods	<p>■ Between Agrozinc ES coats: at least 12 hours.</p> <p>■ Between Agrozinc ES and top coat: at least 24 hours.</p> <p>Depending on temperature and drying-conditions. After longer waiting periods, the surface is recoatable after suitable surface preparation.</p>
Final drying period	At 20 °C and >55 % relative humidity transportable after 10 hours, and through-hardened and overcoatable after approx. 16 hours.
Coating over old coats	<p>Take care of good ventilation of the coated surface.</p> <p>Agrozinc ES can be over coated with all conventional 1- and 2-component coating materials, also bituminous ones, but not with coating materials based on oil, oil-alkyd, or alkyd resins.</p> <p>If exposed to high temperatures, the top coat must be heat resistant in the same way.</p>
Cleaning tools	Verdünnung 202 (Thinner 202). Already cured material can only be removed mechanical.

## 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 <a href="http://www.avenariusagro.at">http://www.avenariusagro.at</a>

Technical Information: Agrozinc 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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