

StrataPrime Standard AC

Quick-dry, anti-corrosion primer

Product overview

StrataPrime Standard AC is a single-component, rapid curing, high build anti-corrosive primer. It provides good durability and corrosion resistance with moderate to good film build.

Manufactured using the latest anti-corrosive agents, StrataPrime Standard AC provides trouble-free application by spray or roller and can also be simply applied by brush in smaller areas. The product offers excellent durability in all environments.

Features & benefits

- Incorporates high quality synthetic resins & anti-corrosive technology
- Ideal for use on poorly prepared metal surfaces
- Excellent performance and durability
- Quick dry formulation

Technical characteristics

Properties	Unit / Description
Chemical description	Moisture-cured single-component polyurethane resin, in organic solvent
Physical state (pre-application)	Liquid
Final state	Dry film
Packaging	Metal container: 5 litre
Adhesion strength ASTM D4541	Metal: >4 MPa
Thermal resistance	Stable up to 145°C
Solids by volume (ASTM D 2697)	50% ±3%
Flash point (ASTM D 93)	>25°C
Colour	Slate grey
VOC content	430 g/L
Pot life (1 kg, 20°C, 60% hr)	1 hour
Storage	Keep at a temperatures between 5°C and 30°C, away from heat, ignition sources & moisture
Use before	Up to 12 months after date of manufacture (in original sealed containers)

Substrate and environmental conditions

In order to achieve a good penetration and bond, the supporting substrate must be clean and dry, free from dust, loose particles, oils, organic residues and laitance. All abrasive particles and dust must be removed by compressed air or must be vacuum cleaned.

The surface must be prepared in accordance with ISO 8504. StrataPrime Standard AC can be applied onto steel surfaces with different preparation grades, although it is recommended for use onto surface blasted steel to a grade of at least Sa 2.5, according to ISO 8501-1 or similar. In general, the surface profile should correspond to Fine or Medium according to ISO 8503-1 (30-75 µm Ry5). The steel surface must be overcoated within 4 hours after cleaning procedures in order to avoid the appearance of rust.

Where blast cleaning is not possible, the surface can be mechanically prepared mechanically to provide a corresponding profile. High pressure water jetting can also be used for surface preparation. Where the prepared surface is visually dry, without condensation or ice, StrataPrime Standard AC can be applied without any limitations on dew point and relative air humidity at substrate / ambient air temperatures ranging from -18°C to 40°C. However, when relative humidity is below 40%, please consult Strata Technical Services for further advice.

StrataPrime Standard AC should be applied in temperatures between 10-35°C and should not be installed in rain or snow, or if the applied material does not have enough time to become touch dry before it is subjected to rain or snow.

Mixing guidelines

StrataPrime Standard AC is a single component material that must be thoroughly stirred to achieve completely homogeneous material. Prior to opening and stirring, ensure that the temperature of material is at least 3°C above dew point.

Before application the material must be thoroughly stirred using a mechanical stirrer. Constant stirring is not required. Once stirred, the surface of the material in the bucket must be covered with approximately 100-200ml of solvent in order to avoid humidity penetration, and the bucket must then be resealed (in case of slow speed of spraying or bad weather condition). For more details please contact Strata Technical Services.

Application guidelines

Please note that the viscosity of the primer will increase at lower temperatures. In order to maintain a suitable application viscosity and prevent excessive thinning of the primer, the temperature of primer should be maintained no lower than +15°C during application.

Spray application: Airless spray application is recommended, although air spray techniques are also acceptable. StrataPrime Standard AC should be applied at a spreading rate of 5-8m² per litre, depending on the film thickness (10m² @ 50µm)

Pressure at nozzle: 17-20 MPa

Nozzle tip: 0.0153-0.023"

Spray angle: 40-80°

Filter: To provide filter cleanliness, the filter size should be 60 mesh (250 µm)

The addition of thinner is not recommended.

Brush / roller application: This method of application is recommended for stripe coating and smaller areas of repairs. The resulting wet and dry film thickness must be watched carefully.

Curing time & reapplication

Curing time will be dependent on environmental conditions. The higher the temperature and humidity are, the faster StrataPrime Standard AC will cure. It is also possible to apply a second coat or to resume the job with the following coating according to the table below:

Temperature	Dry to touch	Recoating time
20°C	30 mins – 1 hour	Minimum 12 hours

Film thickness & coverage rate

Measure	Typical value
Dry film thickness	50 – 75 µm per coat
Wet film thickness	100 – 150 µm per coat

Tool cleaning

Tools can be cleaned using standard thinners. Please contact Strata Technical Services for further guidance.

Health and safety

StrataPrime AC contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a general rule, suitable ventilation must be ensured and any skin contact avoided. This product is intended to be used only in the way described on this data sheet. Sprayed application methods are not recommended due to health & safety reasons. This product is intended for professional use only and should only be used in the way described on this datasheet.

Environmental considerations

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If any residual product remains in the containers, do not mix it with other substances without checking for possible dangerous reactions.

Further information

The information contained in this datasheet, along with any advice provided (either written or verbal) through testing are based on our experience and do not constitute any product guarantee for the installer.

We recommend that all of the information provided is carefully studied before proceeding with application, and strongly advise that suitable tests are carried out onsite before application in order to determine the suitability and compatibility for the specific project.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. As a result, the installer will be solely responsible for any damage derived from the partial or complete disregard of our guidance or the general mis-use of any of our materials.