1. PRODUCT DESCRIPTION

ECS 6600 Thermal Break Coating is a single-component, solvent-borne, acrylic polyurethane coating designed for insulating metal surfaces. ECS 6600 provides excellent thermal insulation protection for metal doors and windows. It is best used as a primer and is compatible with most topcoats. It may also be used for intra-coating insulation between layers of polyurethane or other coatings. ECS 6600 is flexible, easy to apply, and durable. It offers excellent adhesion to most substrates. It is an excellent choice for any metal applications that require a thermal break for energy efficiency purposes.

2. PHYSICAL PROPERTIES

Mixing Ratio (A:B)	NA- single component product
Consumption on steel / concrete [g/m²]	Not Tested
Recommended thickness [µm]	Approx. 30 - 100; (dependent of the porosity of the surface)
Numbers of layer	1
*Pot life [min.]	N/A
Tack-free-time [h]	**Steel:** Not Tested
*Overcoat window [h]	Steel: max. 48
Temperature range for application (ambience)	[°C] +5 - +35
Temperature range for application (substrate) [°C]	[°C] +5 - +35
Maximal relative air humidity for application [%]	98
Preconditions of the substrate:	>> Steel SA 21/2 / Medium G / RZ (min.) ≥ 60µm

3. SURFACE PREPARATION

- Surfaces must be free from dirt, rust, oils, moisture, and containments before starting the coating process.
- Power washing of the substrate is recommended.

4. APPLICATION

- As with any new material, always test application and finished properties on a low value test article or panel before working on valuable surfaces.
- Take all necessary precautions applicable to using a solvent-based product. Ensure adequate ventilation. Keep away from naked flames and sparks. Take special care when working in confined areas including ensuring that there is forced ventilation. Avoid all ignition sources.
- Mix coating well before applying to ensure that no solids have settled to the bottom of the container. Use of hand drill or paint paddle is recommended. Blade examples: Quick Mixer Blade or compound mixer blade.
- Airless prayer is recommended for large applications:
  - **Recommended:** HVLP spray gun using nozzle size of 1.7 to 2.2.
  - Hold the spray gun 6 to 8 inches away from the surface for best results.
- Brush or roller is recommended for flashing, small inaccessible areas or where overspray may be a problem. Use a paintbrush or a standard medium coarse nap roller.
- Single layer is recommended for most applications. Applying multiple layers is possible.
- Coating should be applied in ambient conditions 40°F- 95°F (5°C-35°C)
- Cleanup spills and equipment using acetone or methyl amyl ketone

5. DRYING & CURING TIMES*/**

Solids	40%
Drying Time to Recoat	30 minutes (check to ensure "tack free" before top-coating)
Curing Time to Stack Parts	Minimum 1 hour or determined by customer testing

IMPORTANT: Coating must be **"Tack Free" before over-coating (check by back of finger)*

***The drying times depend naturally on the climate and environmental influences, e.g. ambient temperature, relative humidity of air, and ventilation etc. Therefore, the times specified can only be used as guidelines and exact times must be determined by testing on site.*

6. COVERAGE RATE

Coverage is estimated at 250 ft²/gallon at 40 microns (6.14 m²/liter).

7. STORAGE STABILITY & SHELF LIFE

The shelf life is one year when stored in the original, unopened container. Store containers in a well-ventilated and covered area away from extreme heat and moisture. Contact your eCoat representative if you have any questions about the products or its uses.

8. SAFETY

Avoid prolonged and repeated contact with skin. Do not take internally. Refer to the Safety Data Sheet.