

## EnergyGuard DCC Top Coat



***EnergyGuard DCC Top Coat is the unique clear coat for all exposure conditions. EnergyGuard DCC Top Coat will provide a comprehensive corrosion protection package to maintain total efficiency of the entire HVAC&R installation. With the new patented DCC technology, a faster curing will be obtained in combination with a superior performance and enhanced productivity, without the need for heat or other catalyst. When HVAC&R casing of any coated metal is going to be subject to harsh conditions and the end user wants to maintain the original color but an extra protection, EnergyGuard DCC Top Coat is the unique solution.***

### Features

**EnergyGuard** DCC Top Coat can be formulated to suit nearly all OEM and ACE finishing applications. Along with providing a superior solution for fabrication shops, and field maintenance applications.

Benefits of EnergyGuard DCC Top Coat:

- ✓ EPA Compliant
- ✓ Low VOC-No HAPs
- ✓ Fast Dry Retention
- ✓ High film build capability
- ✓ No Out gassing
- ✓ Excellent Gloss
- ✓ Graffiti Resistant

**EnergyGuard** DCC Top Coat is resistant to almost all chemical vapor exposure conditions.

As a guideline, use the Maximum Acceptable Concentration (or MAC value), as the exposure condition limit. If the MAC values are exceeded, **EnergyGuard** should be consulted. A resistance list is available upon request.

*before treatment:*



*after treatment:*



### EnergyGuard anti-microbial coating systems (Optional)

**EnergyGuard** anti-microbial coating systems give a lifetime protection against unwanted odors caused by contamination of micro-organisms.

Apart from providing excellent anti-corrosion protection and energy conservation of the total system, these coating systems prevent chemical, galvanic and microbial corrosion by excluding dirt adhesion and growth of micro-organisms to the surface of the coil.

With the option, **EnergyGuard** anti-microbial coating systems prevent growth of fungi, mildew, stain causing bacteria and algae in order to extend the lifetime of your valuable equipment.

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## Application

The **EnergyGuard** DCC Top Coat, can be applied with conventional airmix or airless equipment. It starts with surface preparation by degreasing and cleaning, followed by the application of the **EnergyGuard** DCC Top Coat.

The use of a primer is depending the substrate. It is always better to use the **EnergyGuard** ISO Primer for a superior adhesion on any surface.

**EnergyGuard** DCC Top Coat can be applied on all types of HVAC&R equipment.

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## Work process

### Mixing Instructions

The **EnergyGuard** DCC Top Coat component A has to be mixed with Component B in a volume ratio of 3:2. The mixture has to be mixed intensively, preferably using a mechanical mixing device.

### Thinning

The paint can be applied without thinning when using airless spray equipment. Using airmix equipment, maximum 5 % of **EnergyGuard** Thinner PU 5801 can be added, check with the R&D Department.

### Pot life

At 20°C/68°F. 25 minutes (mixed product).

### Application conditions

In order to obtain the right film formation, the temperature needs to be at least 10°C/50 °F. The temperature of the substrate must be 3°C/5,4 °F above dew point. Keep application area well ventilated during application and drying in order to reduce evaporated solvents. This is necessary to acquire good drying conditions.

### Method of application

Preferably by means of airmix or airless spray application. See **EnergyGuard** Operational Manual (E.O.M.).

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## Performances

Gloss	Full Gloss
Volume Solids	92 volume % (mixed product)
VOC	69 g/l – 0,57 lbs/gal
Density	1,05 kg/l – 8,74 lbs/gal (at 20 °C./68 °F)
Dry film thickness	Standard: 50-100 µm – 2-4 mil, depending the application process.
Theoretical coverage	15,4 m <sup>2</sup> /l (at a dry film thickness of 60 µm) 601,5 ft <sup>2</sup> /gal (at a dry film thickness of 2,4 mil)
Heat resistance	Maximum 80 °C/176 °F (dry load)
Drying Times	Dust free after 10 minutes (at 20 °C/68 °F) Manageable after 40 minutes(at 20 °C/68 °F)
Remark	Best curing properties will be achieved at Relative Humidity 55% - 90%. Furthermore, any contact with moisture must be avoided during this period.

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## Environment & Health

Labeling In accordance with EU directions 67/548/EEG and in accordance with directives on hazardous materials.

Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

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## Warranty & Disclaimer

The technical data and other printed information furnished are true and accurate to the best of our knowledge. The products are warranted pursuant to acceptance of limited warranty. A copy of which can be obtained from Monopoly BV, which is the exclusive warranty with respect to the sale of this product. The modification of any component or uses not outlined in this bulletin nullifies the warranty unless advance written confirmation is obtained from Monopoly. No other warranties expressed or implied shall apply.

We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, shall be to supply replacement materials as set forth in the limited warranty.

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