

## 7H-960 C-THERM HB

High build intumescent solvent based paint

Revision Date: April 2006

- Under the action of heat or direct flame it develops a thermoinsulating protective foam with a very low thermal conductivity which aids firefighting.
- Between 15 and 120 minutes of Fire Stability for steel surfaces. (b)
- Can be applied to both, interior and exterior surfaces when it is top-coated with a recommended enamel.
- Easy to apply.
- Without recoating problems.
- Fast drying.

### Typical Uses

Fire protection for steel surfaces.

### Approvals and Certificates

#### Fire Stability:

C-Therm HB is certified for beams and columns according to UNE-23.093 and UNE-23.820 Ex: 97

C-Therm HB complies with UNE 48287-1 concerning Fire Stability after aging.

### Recommended Systems

Previous coats: C-Therm Primer, Amercoat 68, Amercoat 71

Subsequent coats: C-Therm Enamel, Vulcania, Cinonic, Acrilica HB, and other recommended topcoats enamels with M-1 Fire Reaction classification.

### Remarks

When applied on exterior, the topcoat should be applied before could be wetted by rain or condensation.

### Application conditions

Temperature °C: 5 - 45  
Relative humidity %: 0 - 85

The surface temperature must also be at least 3 °C above dew point.

### Physical Data

Finish .....	Matt
Colour .....	White
Substrate .....	Suitably primed steel
Components .....	1
Curing Mechanism .....	Solvent release.
Dry film thickness.....	300 – 800 µm (b)
Number of coats.....	1
Volume solids .....	69% (a)
Volatil Organic Compound (VOC).....	High (25 – 50%)
Calculated coverage.....	0,86 m <sup>2</sup> /l at 800 µm
Practical coverage.....	Allow for application losses, surface irregularities, etc.
Application methods.....	Airless or conventional spray, brush or roller.

#### Drying times (23°C):

In hours:	Thickness (µm)	
	300	800
To touch	45 min	60 min.
To through	4	24
To recoat	4	24

Thinners .....	7Q-240 (CP-20)
Fast Thinner.....	7Q-260 (CP-23) or 42-500 (Dil. SR)
Cleaner .....	7Q-240 (CP-20)
Specific gravity.....	1,32 ± 0,02 g/mL
Flash point.(closed cup)	

Product.....	26°C
Thinners .....	25°C (7Q-240.0000) 27°C /7Q-260.0000) 27°C (42-500.0000)
Cleaner.....	31°C (7Q-240.0000)

Packaging:.....	20 L
Shipping Weight.....	30 Kgs. Aprox.
Shelf life.....	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C.

- (a) According to ASTM D2697 Mod./ UNE-48090 Mod. Slight variations (2%) may occur due to testing variations.
- (b) In order to establish the dry film thickness to give the specified fire stability, it is necessary first, to calculate de H<sub>PA</sub> values (section factors of the steel beams or columns). The dry film thickness can then be determined from the official results of Fire Stability. The dry film thickness per coat depends on application method. Recommended film thickness depends on section factors and requested Fire Stability. Maximum dry film thickness per coat for each method of application:

	Thickness (µm)
Airless	800
Brush	400
Roller	250

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### Application equipment

#### *Conventional Spray*

Fluid tip orifice size	Inch	0,086 - 0,125
Air pressure	Kg/cm <sup>2</sup>	3,1 - 5,3
Fluid pressure	Kg/cm <sup>2</sup>	2,0 - 2,5
Thinning	%	5 - 10

#### *Airless*

Fluid tip orifice size	Inch	0,027 - 0,031
Fluid Pump		66:1
Fluid pressure	Kg/cm <sup>2</sup>	160 - 180
Thinning	%	0 - 5

#### *Brush*

Thinning	%	0 - 5
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#### *Roller*

Thinning	%	5 - 10
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#### HEALTH, SAFETY AND THE ENVIRONMENT

Protect the eyes and skin from contact; gloves, goggles and appropriate clothing should be worn. Keep out of the reach of children.

Use only in well ventilated areas. Do not empty into drains.

Keep the container properly sealed and stored in the correct place.

Take correct measures when transporting the product so as to avoid any accidents that could rupture the can or cause damage to the packaging.

Ensure that the container is correctly stacked in a safe area. Do not store or use the product in extreme temperature conditions.

Always take account of the appropriate legislation relating to the environment and Health and Safety at Work.

For more information it is essential to read the label on the container and the product MATERIAL SAFETY DATA SHEET.