

# 7E-450 C-THERM PRIMER

Flame retardant primer

Revision Date: July 2007

- **Rust inhibitive primer with very fast drying.**
- **Contains zinc phosphate as anticorrosive primer.**
- **General purpose rust inhibitive primer for machinery, tubes, equipment, structures, etc.**
- **Compatible with a wide range of topcoats.**
- **Easy to apply.**
- **Without recoating problems.**

## Typical Uses

Primer for C-Therm Std and HB system to protect steel structures against fire.

## Approvals and Certificates

C-Therm Primer is certified according to UNE-23.727 to meet M-1 degree.

## Recommended Systems

Subsequent coats: C-Therm Std, C-Therm HB and all types of alkyd, chlorinated rubber and acrylic paint.

With epoxy or polyurethane paints, used as topcoats, it is necessary to check compatibility. It will depend of the prior drying time. Prior to apply the topcoat, primed surface must be clean, dry and free of all contaminants.

## Surface Preparation

Steel: Min.: St-3 (ISO-8501-1)

Recommended: Sa 2½ (ISO-8501-1)

## Application conditions

Temperature	°C:	5 - 45
Relative humidity	%:	0 - 85
Surface Temperature		2 - 3 °C above dew point.

## Application equipment

### Conventional Spray

Fluid tip orifice size	Inch	0,055 - 0,070
Air pressure	Kg/cm <sup>2</sup>	3,1 - 4,2
Fluid pressure	Kg/cm <sup>2</sup>	0,7 - 1,4
Thinning	%	0 - 10

### Airless

Fluid tip orifice size	Inch	0,015 - 0,019
Fluid Pump		30:1
Fluid pressure	Kg/cm <sup>2</sup>	160 - 180
Thinning	%	0 - 5

## Physical Data

Finish .....	Matt
Colour .....	Red iron oxide and grey
Substrate .....	Steel
Components .....	1
Curing Mechanism.....	Solvent release and reaction with oxygen.
Dry film thickness.....	40 µm
Number of coats.....	1
Volume solids .....	44,7% (depending on formula) (a)
Volatil Organic Compound (VOC).....	High (25 - 50%) EU limit for this product (cat A/i): 600 gr/l (2007) / 500 gr/l (2010). This product contains max. 513 gr/l VOC. VOC reduction contributes to a better environment. a)
COV (shipment form)	< 477 g/L
Calculated coverage.....	11,17 m <sup>2</sup> /l at 40 µm
Practical coverage.....	Allow for application losses, surface irregularities, etc.
Application methods.....	Airless or conventional spray, brush or roller.
Drying times at 20°C and 40 microns:	
Dry to touch.....	30 minutes
Dry through.....	1 hour
Dry to recoat.....	Min. 16 hours Max. Unlimited
Thinners .....	7Q-240 (CP-20)
Cleaner .....	7Q-240 (CP-20) or 52-510 (Dil. Industrial)
Specific gravity .....	1,47 g/mL
Flash point.(closed cup)	
Product.....	24°C
Thinners .....	31°C (7Q-240.0000)
Cleaner.....	31°C (7Q-240.0000) 5°C (52-510.0000)
Packaging:.....	20 and 4 L
Shipping Weight.....	30 and 6 Kgs. Approx.
Shelf life.....	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C.

(a).- Results are referred to red iron oxide colour.

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a) The VOC value shown above refers to a ready for use product, as tinted, thinned etc in accordance with our recommendations. We are not responsible for products obtained by mixing products which are different from those we have recommended and we must draw attention to the responsibility of anyone involved within the supply chain not to infringe Directive 2004/42/CE

### **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.**