

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

# www.newguardcoatings.com

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

# **THERMOCOAT S**

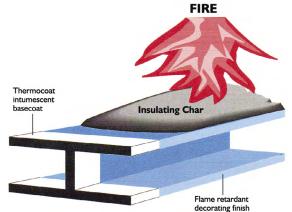
# INTUMESCENT PAINT FOR STRUCTURAL STEEL AND CAST IRON

#### **INTENDED USE**

Thermocoat is an intumescent paint system providing fire resistance to structural steel and cast iron of up to 120 mins with a minimum number of coats. A compatible decorative overcoat system ensures the system will enhance the building's architectural and design features. Recomended for external exposed steel not subject to pooling water.

#### **HOW IT WORKS**

The heat of a fire triggers a catalytic reaction, causing the expansion of an insulating char layer up to 50 times the paint thickness. This layer keeps the steel below its critical temperature, thus maintaining the structural integrity of the building.



Certificate of Supply

# FIRE TESTING

Product performance assessment is based upon UKAS/ EGOLF Fire Test Laboratory Certification to BS 476 Part 21

Fire Resistance to load bearing elements of structures.

Please consult Technical

Department 01 142 768008 for detailed specification advice.

# **FIRE CERTIFICATION**

Thermoguard issue a Certificate of Supply on request for each specified project for insurance, Fire and Building Control Authority and Client Records.

#### **PREPARATION AND PRETREATMENT**

- Steel and cast iron should be free from rust and millscale and primed with Thermoguard Steel Fire Paint Primer (or alternative good quality anti-corrosive primer compatible with intumescent paints) in accordance with manufacturers instructions. Treat galvanised surfaces with "T" wash/Mordant solution and apply a light coat of Thermoguard Steel Fire Paint Primer or good brand zinc phosphate primer.
- Thermoguard Steel Fire Paint Primer may be left without further overcoating or decorated with appropriate conventional paint where no fire resistance is required. It may be left uncoated in external locations for 6 months.

#### TO SPECIFY

- Dry Internal: Apply Thermocoat S in accordance with Thermoguard film thickness schedule to acheive 30, 60, 90, 120 min
- Visible external exposed during construction or occasional modest damp internal areas: Also apply 1 good coat Thermoguard Flame Retardant Paint.
- Vibrant colours with poor opacity may need 2 coats. Best over nearest dull shade.
- Not suitable for areas subject to "pooling" water
- Wet or External Under Cover: Apply 2nd coat Flame Retardant paint
- Full External Exposure Contact Technical Dept.

#### APPLICATION

- Thermocoat S may be applied by brush, roller or airless spray. To achieve the best finish in the shortest time, spray application is recommended. Prior to application the contractor should contact Thermoguard's Technical Department and obtain a basecoat application schedule. To assist correct application in accordance with this schedule, a wet film gauge will be supplied with the order. Further wet film gauges will be provided on request.
- Maximum wet film thickness per brush coat max 700 microns
- Maximum wet film thickness per spray coat max 1200 microns

## RECOATING

#### **Brush/roller** application

- Surface touch dry: minimum 2 hours, handle min 24hrs
- Recoat: minimum 6 hours
- Overcoating with Flame Retardant finish: minimum 24 hours

# Spray application

- Surface touch dry: minimum 4 hours, handle min 24 hrs
- Recoat: minimum 12 hours
- Overcoating with Flame Retardant finish: minimum 48 hours

# SPRAY EQUIPMENT

#### Airless Spray Pump

Use equipment recommended by manufacturer for the application of high viscosity intumescent paints.

Filter size 30 mesh. 10mm hose 3/8" diameter with no whip end

Care should be taken to clean filters regularly. Cleaning should be undertaken with xylene / cellulose thinners.

# **FINISHES, COLOURS, SIZES**

- Thermocoat S 2.5kg + 10kg + 20kg
- Flame Retardant gloss + eggshell 5 lt + 2.5 lt
- BS 4800 colours

#### COMPOSITION

Intumescent compounds and resin binders, with high opacity pigments.

All materials and specifications are provided in accordance with the Terms and Conditions of Thermoguard Refer to Health & Safety Data Sheets on www.thermoguard.co.uk before using these products.

#### THERMOGUARD

Kirkby Street, Hull, HU2 0HE. Phone: 01142 768008 Fax: 01142 381966 Email: technical@thermoguard.co.uk







Tip Size Tip Size 321, 323, 421, 423

### VOC

The EU VoC limit for structural steel intumescent paints is 500 gm / litre. This product contains 398 gm / litre.

# TECHNICAL ADVISORY AND ESTIMATING SERVICE

Thermoguard's in-house estimators provide realistic, confidential guidance on project costings to contractors and quantity surveyors. They also provided expert advice and assistance with all aspects of specification and application.

# **QUALITY ASSURANCE**

Thermoguard is ISO 9000 Registered. All products are manufactured and supplied under the principles of ISO 9000.

### **APPLICATION CONDITIONS**

- Maximum Relative Humidity 80%
- Minimum ambient temperature 4°C
- Minimum Steel Temperature 3°C above Dew Point

## **ENVIRONMENTAL, HEALTH & SAFETY**

Thermoguard Thermocoat S is a compliant specialist coating. The range of topcoats are either water-based or 2010 compliant and safe to use in accordance with manufacturer's instructions. The EU & UK VoC limit for this product is 500 gm / litre. Product contains 398 gm / litre.



