



TECHNICAL DEPARTMENT
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THERMOCOAT S

THERMOCOAT S INTUMESCENT PAINT FOR STRUCTURAL STEEL AND CAST IRON

Key Benefits:

Thermocoat S is a solvent based intumescent coating. The range of topcoats are either water-based or 2010 compliant and safe to use in accordance with manufacturer's instructions.

Dry Internal: Apply Thermocoat S in accordance with Thermoguard film thickness schedule to achieve 30, 60, 90 minutes.

Visible or occasional modest damp internal areas: Also apply 1 good coat Thermoguard Flame Retardant Paint

Wet or External Under Cover: Apply 2nd coat Flame Retardant paint

Full External Exposure: Contact Technical Dept.

Thermocoat S can be topcoated with Flame Retardant gloss, eggshell, WB satin, WB matt BS 4800 & RAL colours.

Intended Use:

Thermocoat S is optimised to protect shaped steel and hollow bracing. It is a solvent based intumescent paint system providing fire resistance to structural steel and cast iron of up to 90 minutes with a minimum number of coats. A compatible decorative overcoat system ensures the system will enhance the building's architectural and design features.

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.

Pack Sizes:

Available in 20kg, 10kg, 2.5kg

Coverage:

Prior to application the contractor should contact Thermoguard's Technical Department and obtain a basecoat application schedule or follow on can guidance. Do not overspread as this will compromise the system and result in non-compliance and a failure to be certified

Drying Times:

Brush/roller application	Surface dry: minimum 2 hours, Handle minimum 24 hours
	Recoat: minimum 6 hours
	Overcoating with Flame Retardant finish: minimum 24 hours
Spray Application	Surface Dry: minimum 4 hours, Handle minimum 24 hours
	Recoat: minimum 12 hours
	Overcoating with Flame Retardant finish: minimum 48 hours

Preparation:

Steel and cast iron should be free from rust and millscale and primed with Thermoguard Steel Fire Paint Primer to 75 microns DFT (or alternative good quality anti-corrosive primer compatible with intumescent paints) in accordance with manufacturer's instructions. Treat galvanised surfaces with "T" wash/Mordant solution & prime with zinc phosphate or other primer for steel.

Application Conditions:

Maximum Relative Humidity 80%

Minimum ambient temperature 4°C

Minimum Steel Temperature 3°C above Dew Point

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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 – 600 microns

Maximum wet film thickness per spray coat – 1000 microns

Spray:

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

Tip Size 321,323,421,423

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

Fire Certification:

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

VOC Content:

EU limit for this product (cat A/i) is 500 g/l. This product contains 398 g/lv

Composition:

Intumescent compounds and resin binders, with high opacity pigments.

Test Data:

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.

Health and Safety:

Please refer to the relevant Safety Data Sheet for full details of this product.

Apply all products in accordance with BS 6150:2019- Code of practice for painting of buildings.

Do not store this product in cold temperatures below 5°C or above 30°C.

Store in a dry secure place away from children or animals. Dispose of in accordance with local authority waste disposal measures. Do not pour into drains or watercourses.

Technical Department 01142 768008 or email technical@thermoguard.co.uk

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.

All materials and specifications are provided in accordance with the T & C's of Thermoguard

Refer to Health & Safety Data Sheets on www.thermoguard.co.uk before using these products.