

# Heatshield C100 Coating

## Water Based Fire Resistant Coating

### Product Description

**Heatshield C100 Coating** is a high performance and easy to use, non-intumescent water based acrylic coating containing fire retardant chemicals. It cures at room temperature and provides a strong but very flexible coating with excellent adhesion. It is designed to be part of a system with **Heatshield B50-ST** and **B50-XT Batts** and **Heatshield S500** and **S550** Sealants. **Heatshield C100 Coating** is factory applied to Heatshield high density mineral fibre batts to produce B50 Batts, and is also supplied separately to provide on-site system continuity for installing all Heatshield B50 Batts. The primary use on site is as an adhesive for all contact surfaces between B50 Batts and the substrate and mechanical and electrical services. It is also used as an adhesive between edges of B50 batts where they are butt jointed together around complex service penetrations, and finally to overcoat all exposed joints in completed B50 Batt installations.

### Intended Use

**Heatshield C100** has been comprehensively tested and independently certified when used as part of a system with Heatshield B50-ST or B50-XT Batts and Heatshield S500 Sealant in a wide range of applications, from linear gap seals\* in concrete walls and floors to service penetrations seals in concrete walls and floors and gypsum drywalls.

#### A. Penetration Seals

120 Mins fire resistance (Insulation & Integrity) when used to seal a wide range of services penetrating concrete walls and floors and gypsum drywalls. Single electrical cables, cable bundles, insulated steel pipes up to 152mm diam and copper pipes up to 108mm diam, loaded cable trays up to 450mm wide.

#### B. Linear Gap Seals\*

B50-XT Batts have been tested and classified for 240 mins up to 200mm wide head of wall seals and up to 100mm wide vertical joint seals in concrete walls, and 120 mins up to 200mm wide in concrete floors.

**IMPORTANT: \* Please consult B50 Batts Technical Data Sheet for specific details.**

### Application Instructions (For use with B50 Coated Batts)

**Heatshield C100** is easily applied on site using readily available hand tools (paint mixer and paint brush).

1. Remove all loose debris, grease, oil and bituminous material from all contact surfaces of aperture.
2. Accurately measure overall dimensions of aperture and cut the B50 Batt to ensure a very tight friction fit.
3. Accurately measure dimensions and positions of penetrating services and mark on B50 Batt.
4. Cut out openings in Batt where previously marked for the penetrating services.
5. Coat all contact surfaces of substrate and all B50 Batt edges including holes cut for services with Heatshield C100 Coating.
6. Press fit the B50 Batt into the aperture and around services ensuring that the coated surface finishes flush with surface of wall or floor.
7. Where 2 x Single Sided Batts are required, repeat steps above from other side of wall or floor.
8. Note: Use the minimum number of cuts / pieces of Batt to achieve a full, tight fitting seal.
9. Apply a bead of Heatshield S500 sealant around perimeter of seal and at all service / Batt interfaces. After S500 sealant is cured, apply a 1mm w.f.t coat of Heatshield C100 coating over all joints and perimeter of seal ensuring a minimum 25mm overlap each side of joint and abutment with substrate.



**Heatshield**

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### Key Benefits

- Independently Tested & Certified
- Water Based
- Solvent Free
- Humidity Resistant
- Easy Installation
- Flexible & Durable
- Non Toxic to Environment
- Economic Solution
- ISO 9001 Quality Assured



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European Assessment Documents:  
EAD350454-00-1104 - Sep 2017

ETA 23/0901



ENCG R.41917

Certificate No:  
UL-EU-01303-EN

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Intertek

ISO 14001 + 45001



MANUFACTURED IN U.A.E.

## Physical Properties

Composition	Water based flexible ablative acrylic coating
Colour	Grey or White
Sg	1.48 ± 0.03 @27°C
pH	8.4
Solids %	60% +/- 1%
Cure	Air Cure / Evaporation
Touch Dry	6 Hrs at RT
Application Temperature	+4°C - +35°C
Service Temperature	-20°C - +75°C
Limitations	Do not use in conditions of continuous immersion, below ground or in areas of high mechanical abrasion.
Storage	Store between 10 - 25°C, do not store below 5°C
Shelf Life	Min 12 months in unopened containers.

## Fire Performance

Reaction to Fire	BS EN13501.1	Class E
Resistance to Fire	BS EN13501.2	

### Penetration Seals - BS EN1366.3

ETA No: 23/0901

UL-EU Cert: UL-EU-01303-EN

EN Classification: EI 120

Please consults B50 Batt Technical Data Sheet for detailed fire performance

### Linear Gap Seals - BS EN1366.4

FIRES s.r.o. Classification Report Nos:

FIRES-CR-259-21-AUPE, FIRES-CR-188-22-AUPE, FIRES-CR-189-22-AUPE

Classified for up to EI 240

Please consult B50 Batt Technical Data Sheet for detailed fire performance

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