

TECHNICAL DATA SHEET

FLAMEBAR BW11

PRODUCT DESCRIPTION

FLAMEBAR BW11 is a specially formulated water based ablative coating containing selected mineral fillers in a low permeability elastomeric binder. Its fire proofing properties are used to provide enhanced performance of the FLAMEBAR BW11 fire rated ductwork system. This includes ventilation, smoke, pressurisation and kitchen extract ductwork.



PHYSICAL PROPERTIES

DESCRIPTION	Single pack co-polymer emulsion containing a special function aggregate system
FINISH	Monolithic spray texture
COLOUR	Natural buff
CURE	By air drying
FLASH POINT	None, water based
THINNER	Supplied ready to use, do not thin without reference to Firespray International
CLEANER	Water - preferably warm and as soon as possible
TOTAL SOLIDS	46% by weight 65% by volume
WEIGHT/LITRE	1.4 kg
PH VALUE	Mildly alkaline, pH 9 approximately

NUMBER OF COATS	One or more as required
NOMINAL DRY FILM THICKNESS (DFT)	0.7 mm
WET FILM THICKNESS (WFT)	1.2 mm to 1.5mm
THEORETICAL COVERAGE	1.5 Kg/m ² for 0.7mm DFT
PRACTICAL COVERAGE	Normally 1.8 to 2.2 Kg/m ² for 0.7mm DFT
STORAGE	Protect from frost and excessive heat. Avoid exposure to strong radiant sunlight. Do not store at temperatures below 4°C or in excess of 50 °C
SHELF LIFE	12 months
CONTAINER SIZE	28 kg plastic drums 35 kg steel drums (International transport)
FIRE PERFORMANCE	Tested for up to 4 hours Stability, Integrity and Insulation. Tested in accordance to BS 476 Part 24 and BS EN 1366 when use in conjunction with the FLAMEBAR BW11 fire rated ductwork system
SPREAD OF FLAME	Class 1 to BS 476 Part 7 on non-combustible substrates
FIRE PROPAGATION	Low index and sub-index readings to BS 476 Part 6 over non-combustible substrates. The combination of BS 476 Parts 6 & 7 testing gives FLAMEBAR BW11 a Class 'O' rating

CHEMICAL RESISTANCE

Samples of FLAMEBAR BW11 have been tested in:

STANDARD 10% SOLUTIONS OF THE FOLLOWING ACIDS:	Hydrochloric, Nitric and Sulphuric
STANDARD 10% SOLUTIONS OF THE FOLLOWING ALKALIS:	Sodium Hydroxide and Potassium Hydroxide
THE FOLLOWING SOLVENTS:	Xylene and Acetone

After 10 days total immersion, all the above chemicals failed to cause a breakdown of the FLAMEBAR BW11 structure.

STEEL SURFACE PREPARATION

The steel surface shall be inspected prior to application to ensure that it is suitable for the application and adhesion of FLAMEBAR BW11. The steel surface must be free from loose material, dust deposits etc. Bare Steel surfaces should be treated with a suitable alkali resistant primer.

The surface must be degreased and dried prior to application of FLAMEBAR BW11.

APPLICATION

Thoroughly stir contents before use - do not thin. This product is for professional use only. The applicators and operators shall be trained and certified by Firespray International to ensure application of the system according to our technical standards and method statement.

METHODS OF APPLICATION

Industrial spray or brush.

EQUIPMENT

FLAMEBAR BW11 is applied by industrial heavy material spray equipment. Brush grade material is available for small area applications. For assistance, please refer to Firespray International.

LIMITATIONS DURING APPLICATION

FLAMEBAR BW11 is suitable for most interior and semi-exposed areas, but it is not recommended for use in areas where it will be fully exposed to exterior weather conditions.

- Maximum air and surface temperature 50°C
- Minimum air and surface temperature 4°C and falling (application is permissible where air and surface temperature is at least 2°C and rising)
- Air and surface temperature to be at least 2°C above dew point temperature

COLOUR VARIATION

FLAMEBAR BW11 may have some colour variations from batch to batch as it contains naturally occurred minerals. Colour variations may also occur as a result of exposure to elements of environment such as temperature, UV intensity etc., and application quality.

REPAIR

Damage repairs may be carried out by hand with FLAMEBAR BW11 coating.

TOP COATING

Top Coating of FLAMEBAR BW11 with other materials - consult Firespray International.

APPROVALS and CERTIFICATES

FLAMEBAR BW11 fire rated ductwork system, including FLAMEBAR BW11 coating, FLAMEBAR sealant and FLAMEBAR gasket, has been successfully tested for international use under cellulosic fire conditions in excess of 4 hours duration. The completed system has been tested and accredited by the Building Research Establishment (BRE) Global UK to BS 476 part 24. It has also been tested to EN 1366 and is classified by UL and ISO 6944. Additional certificates and approvals may be available on request.

HEALTH and SAFETY PRECAUTIONS

Provided that the correct standards of hygiene are maintained and safe working practice followed, there are no known hazards in the handling of FLAMEBAR BW11. Recommended safety precautions to follow are:

1. Avoid skin and eye contact and inhalation of spray mist. Wearing of gloves, goggles, face mask and chemical protective clothing recommended for spray applications. Barrier cream can be used when the exposure is prolonged.
2. Provide good ventilation.
3. If product comes into contact with skin, wash with lukewarm water and soap or a proprietary hand cleanser. Seek medical attention if irritation persists.
4. In case of eye contamination, rinse eyes continuously with clean water. Remove contact lenses if present and easy to do so; Seek medical attention if irritation persists.
5. If swallowed, remove person to fresh air, rinse mouth and throat with water. Dilute stomach contents with water. Do not induce vomiting and obtain medical aid.
6. Where spillage occurs, cover the FLAMEBAR BW11 with an absorbent material, e.g. dry sand, and dispose of it carefully, ensuring that contamination of water courses, sewers or soil does not occur.



7. Do not eat, drink or smoke in the work place. Always wash hands and take off contaminated clothing during breaks and after work.
8. In case of fire, exercise caution, keep upwind and evacuate area. Wear breathing apparatus. Provide fresh air to victims of smoke inhalation and seek immediate medical attention.

A detailed Health and Safety Data Sheet is available on request.

DISCLAIMER

This Technical Data Sheet supersedes those previously issued.

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