

S-V1 Coating

Advantages

- Fire resistant polymeric coating.
- Surface can be easily wiped clean.
- Improves durability.
- Provides resistance to water, oil, petrol, diesel, and detergents.
- Large improvement to mid frequency acoustic performance.

Applications

Wilhams PUNF acoustic foam with an S-V1 coating is employed where a resistance to fluids and chemicals is required. Ideal for clean room and computer room applications where a dust free environment is specified. Where Wilhams PUNF acoustic foam is used for internal and external duct linings, the S-V1 surface treatment provides an effective barrier to water especially at ductwork inlet sections. S-V1 is applied to Wilhams PUNF acoustic foam for engine room applications such as under bonnets and in engine compartments.

Description

Wilhams Class 'O' PUNF acoustic foam composite comprising fire resistant foam (see data sheet 1/01) with a fire resistant polymeric coating.

Physical Information

The S-V1 coating is sprayed onto one side of the Wilhams PUNF acoustic foam material, and is black in colour.

Technical Information

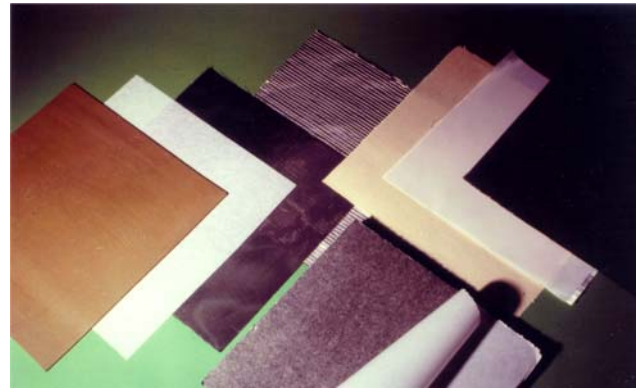
As a coating for the Wilhams PUNF acoustic foam, the composite will not significantly alter the technical and performance characteristics as stated in Data sheet 1/01 for the PUNF acoustic foam. There will only be a slight loss in acoustic performance at frequencies above 3000 Hz.

The Class 'O' fire rating is applicable for the PUNF foam with S-V1 coating composite.

SVG1 Facing

Advantages

- Fire resistant glass cloth facing.
- Surface can be easily washed with a soap solution.
- High resilience and improves durability.
- Provides resistance to acids, alkalis, oil, grease, petrol, and diesel.



Applications

Wilhams PUNF acoustic foam with an SVG1 facing is employed in the food and process industry or for applications where hygiene is an important factor.

Description

Wilhams Class 'O' PUNF acoustic foam composite comprising fire resistant foam (see data sheet 1/01) with a lightweight vinyl coated glass cloth.

Physical Information

The SVG1 facing is laminated onto one side of the Wilhams PUNF acoustic foam material, and is silver grey (optional black) in colour.

Weight	190 g/m ²
Base fabric	Fibreglass (encapsulated)
Operating temperatures	80°C (max. continuous) 110°C (intermittent) -6°C (minimum)

Technical Information

Wilhams PUNF acoustic foam with SVG1 facing conforms to the following specifications:

Fire Tests

- | | |
|------------------------|----------------------|
| • BS 4735:1991 | – Self extinguishing |
| • FMVSS 302 | – Self extinguishing |
| • BS 476: Part 7: 1987 | – Class 1 |
| • EPI Radiateur | – M1 |

As a facing for the Wilhams PUNF acoustic foam, the composite will not significantly alter the technical and performance characteristics as stated in Data sheet 1/01 for the PUNF acoustic foam. There will only be a slight loss in acoustic performance at frequencies above 3000 Hz which is inevitable where a tough facing is applied.

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SVG1 Facing - Chemical Resistance Rating

Chemical	Rating	Chemical	Rating
Organic Acids:		Alkalis:	
Acetic	E	Ammonia	E
Lactic	E	Ammonium Hydroxide	E
Oxalic	E	Sodium Hydroxide (Caustic soda)	E
Stearic	E		
Tannic	E	Aliphatic Hydrocarbons:	
		Paraffin	G
Inorganic Acids:		Hydraulic Oil	G
Chromic (up to 50%)	G		
Fluoric	E	Ketones:	
Hydrochloric (up to 40%)	E	Acetone	G
Hydrogen Peroxide	E	Methyl Ethyl Ketone	F
Nitric (up to 50%)	G		
Phosphoric	E	Alcohols:	
Sulphuric (up to 50%)	G	Ethyl	E
		Methyl	E
Miscellaneous:		Aromatic Hydrocarbons:	
Animal Fats	E	Naptha	G
Bleaches	E	Toluene	F
Diesel Fuel	G	Furpentine	G
Paint Remover	G		
Petrol	G	Halogenated Hydrocarbons:	
Weed Killers	E	Carbon Tetrachloride	G
White Spirit	G	Chloroform	G
		Trichloroethylene	G

Key: E = Excellent G = Good F = Fair NR = Not recommended

The above ratings apply to chemicals at normal room temperature and non-abrasive conditions.