

Interchar 677

Fire Retardant Mastic

PRODUCT DESCRIPTION

A high build, asbestos free, water based intumescent coating designed to prevent the propagation of fire along PVC/PE jacketed electrical cables.

- Dries to a non-flammable and inert coating
- Prevents flame spread or fire propagation
- Water based, odourless
- Sprayable

INTENDED USES

As a coating to provide protection for grouped or trayed PVC/PE sheathed electrical cables. Ideal for conduit and pipes in refineries, mining, hydroelectric, pulp and paper plants and high rise buildings.

Very effective in protecting vital computer linkages, and reducing toxic gas and smoke emissions during a fire.

PRACTICAL INFORMATION FOR INTERCHAR 677

Colour	Off - White
Gloss Level	Matt (coarse texture)
Volume Solids	60%
Typical Thickness	1600 microns dry equivalent to 2667 microns wet
Theoretical Coverage	0.375 m ² /litre at 1600 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless spray, Airspray, Brush and Roller
Drying Time	

Temperature	Touch Dry*	Hard Dry*	Overcoating Interval with Interchar 677	
			Minimum	Maximum
10°C (50°F)	8 hours	30 hours	30 hours	Extended
15°C (59°F)	6 hours	25 hours	25 hours	Extended
25°C (77°F)	4 hours	20 hours	20 hours	Extended
40°C (104°F)	2 hours	15 hours	15 hours	Extended

* Drying times are dependent upon ambient conditions. The figures quoted above have been determined at the quoted temperature and 50% relative humidity.

REGULATORY DATA

Flash Point	Base (Part A) >63°C (>145°F)	C/A (Part B) N/A	Mixed N/A
Product Weight	1.47 kg/l		
VOC	7g/l (Calculated)		



Ecotech is an initiative by International Protective Coatings a world leader in coating technology to promote the use of environmentally sensitive products across the globe.

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SURFACE PREPARATION

Interchar 677 exhibits a high degree of surface tolerance and as such it is not always necessary to clean cables prior to spray applications. However, it is advised that thick layers of dust or foreign matter be removed via vacuum cleaning or sweeping and, remove oil and grease by thorough cleaning with clean rags.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Mix Ratio	Not applicable	
Working Pot Life	Interchar 677 is a single pack product and as such does not have a pot-life. However if the can is left open the product will form skin. Product should remain well sealed when not in use.	
Airless Spray	Recommended	-Minimum 45:1 ratio pump -1.125mm tip -Total output fluid pressure at spray tip not less than 176kg/cm (2,500 p.s.i.)
Air Spray (Pressure Pot)	Suitable- (Small areas)	Use a De Vilbiss Model QMGT 51012 bottom outlet pressure pot with De Vilbiss MBC516 gun with a 7.5mm round orifice or equivalent. The needle valve is replaced with a 1.2cm shut-off valve attached to the fluid hose. Pot pressure 175-275 KPa.
Brush	Suitable- (Small areas only)	Multiple coats will be required to achieve required film build.
Roller	Suitable- (Small areas only)	Multiple coats will be required to achieve required film build.
Thinner	Potable Water	Not normally required, but if necessary 8% maximum.
Cleaner	International GTA991	
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with water, followed by International GTA991. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning of the material after storage. Material should be filtered prior to use.	
Clean Up	Clean all equipment immediately after use with International GTA991. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

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PRODUCT

CHARACTERISTICS

Thoroughly flush equipment with International GTA991 thinner, or industrial alcohol, followed by clean potable water prior to use. To obtain maximum edge protection and film build, airless spray application is recommended.

Application by other methods, e.g. brush or roller, may require more than one coat to achieve required DFT.

As with all water borne coatings careful control of application conditions is required to ensure good long term performance.

The following basic parameters must be adhered to:

Interchar 677 must be protected from freezing at all times during storage.

The minimum steel temperature for application must be above 10°C (50°F), and be at least 3°C (5°F) above dew point.

The relative humidity should be lower than 70% otherwise drying and overcoating times will be severely extended.

Drying times are also heavily dependant of film thickness. Over application will result in extended drying times.

Good airflow is essential around the object being painted [minimum air speed 0.1 m/sec].

Small, localised areas which are difficult to ventilate should be brush applied to prevent over-application.

To avoid “sliding” or “slumping” on vertical surfaces, first apply a thin mist coat, and allow to set for 30 minutes before applying full thickness.

It should be highlighted that Interchar 677 will not affect the electrical rating/resistance of the cables it is used to overcoat.

SYSTEMS

COMPATIBILITY

Interchar 677 is designed specifically for application over grouped or trayed electrical cables, it is not recommended for application over other products.

Interchar 677 should not be overcoated with any other product. Application of other products over Interchar 677 may affect its fire retardent properties.

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ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	15 litre unit	HAA677 Base	15 litres in a 20 litre plastic bucket
SHIPPING WEIGHT	For availability of other pack sizes contact International Protective Coatings		
	U.N. Shipping No.	Nil	
	15 litre unit	24.05 kg	
STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions, do not freeze.	

Important Note

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. While we endeavor to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 04/05/2005

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