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Hand Pour/Injection/
Sprayable Foams

HCFC/HFC/Pentane/
Water Blown Foams

Integral Skin Foams

Polyurethane Rigid Foam
Sheets

Polyurea & Polyurethane
Spray Elastomers

Polyurethane Panel
Adhesives

Tufflex Waterproofing

Disposable Foam
Products

Packaging Foams

Foam-in-Place/Foam-in-Bag
Dispensers

PACTHANE PAC SPA31 POLYURETHANE SPRAY FOAM PRODUCT DATA SHEET

DESCRIPTION

PACTHANE PAC SPA31 is a high performance two component **31 kg/m³ density** polyurethane Rigid Spray Applied system.

This formulation provides good strength, low thermal conductivity, low flammability and low permeability on a wide range of substrates.

PACTHANE PAC SPA31 is rated B2 under DIN 4102 for fire resistance.

A fully **fire retarded** grade tested to AS 1530 Part 3 is available on request.

APPLICATIONS

PACTHANE PAC SPA31 Spray Foam is recommended whenever maximum insulation and good physical strength and flame resistant properties are required.

This product is ideal for insulating:

- Spa shells and cabinets**
- Cold stores**
- Air-conditioning units**
- Pipes**
- Refrigeration units and cabinets**
- Fish holds**
- Film and stage props fabrication**

NOTE: Exterior applications of spray foam should be protected against exposure by appropriate sheathing or membrane.

PHYSICAL PROPERTIES

LIQUID COMPONENTS

	COMPONENT A	COMPONENT B
Appearance	Brown liquid	Clear liquid
Specific Gravity	1.24	1.19
Viscosity	200 cps	800 -1000 cps
Mix Ratio – by volume	1	1

REACTION PROFILE (20°C)

Cream Time	3 seconds
Gel Time	5 seconds

FOAM PROPERTIES

Free rise density	31 ± 2 kg/m ³
Thermal Conductivity	0/02 W/mK approx
Compressive Strength	160 kN/m ² approx
Closed Cells	90 – 95%
Dimensional Stability	1 – 5%
Water Absorption (20oC)	0.45 kg/ m ²
Fire Rating	B2 (DIN 4102)

PROCESSING INFORMATION

PACTHANE PAC SPA31 is designed to be applied using high pressure spray-in place plural component dispensing equipment, such as the Glas-Craft dispenser fitted with a Probler Gun.

Drums of Components should be pre-heated to at least 25°C prior to dispensing, with the machine set to the following parameters:

Equipment Pressure	1000 psi minimum
Component A (iso)	
Hose Temperature	30°C – 40°C
Machine Temperature	40°C – 45°C
Component B (Polyol)	
Hose Temperature	30°C – 40°C
Machine Temperature	40°C – 45°C
Gun:	#02 round spray chamber or equivalent

Check and maintain component dispensing ratios regularly.

APPLICATION CONDITIONS

PACTHANE PAC SPA31 is formulated for application on most surfaces under various conditions. Substrates should however, be clean and dry. Water or moisture may react with the components and affect the finished results. Surfaces should be in the temperature range of 15 – 35°C.

Excessive wind will result in significant spraying losses. Wind screens may be required for wind velocities exceeding 10 km/hr and no spraying should take place with wind velocities exceeding 20 km/hr.

COVERAGE

The density of the obtained foam depends on the actual conditions present during the application process and also on the spaying technique. The ambient temperature and moisture as well as the temperature and nature of the sprayed surface have a significant influence.

Actual coverage and density should be checked when commencing spraying then at regular intervals to ensure that the expected results are being achieved.

Under ideal conditions, 1 kg of foam expands to 0.032 cu. m. When sprayed to a thickness of 40mm, this would cover approximately 0.8 sq. m.

Adverse surface or ambient conditions, surface profiles, off-ratio dispensing, inadequate component pre-heat and spraying technique will affect the achieved coverage.

Our technical service – whether verbal, in writing or by way of trials – is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you.

PRODUCT HANDLING

All persons using spray foam components should be trained in their use and be familiar with the product MSDS's.

Component A (diphenylmethane-diisocyanate)

This is a potential respiratory sensitiser. Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and chronic bronchitis sufferers) should avoid handling this product.

Avoid contact with the eyes or skin and breathing the vapour. Wear appropriate personal protective equipment when servicing equipment and breathing apparatus when spraying foam.

Exposure levels must be maintained below the safe thresholds.

Component B (polyol blend)

This contains polyols and HCFC blowing agents.

Avoid contact with the eyes or skin. If eye contact occurs, flush thoroughly with water and consult a physician.

Wear appropriate personal protective equipment when servicing equipment.

Provide additional ventilation if used in confined spaces.

Cleanup

Cured polyurethane foam is difficult to remove chemically. Therefore, overspray and spillage should be minimized and cleaned up as soon as possible.

PAC Poly Clean aerosol cans can be used for small areas while PAC Methyl Proxitol is available for larger areas and for flushing lines.

Storage

Components should be stored at temperatures between 15°C and 25°C. Containers should be tightly closed

Polyols should be remixed if not used within 3 months of delivery.

Shelf life is 6 months from delivery minimum

24 hr Emergency No: 00800 2436-2255

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