



Data Guide

POUR-IN-FOAM (RIGID POLYURETHANE FOAM)

PRODUCT DESCRIPTION

Polyurethane Foam is widely used in conjunction with FRP in refrigeration, flotation, solid filling, insulation, encapsulation and sandwich-type construction.

Pour-In-Foam is a two part system:

1. *Daltolac Part B* - a fully blended resin system containing polyols, fire retardant, catalyst, surfactant and F11.
2. *Suprasec Part A* - a dark coloured liquid of Polymeric - diphenylmethane composition.

MIXING

One part Daltolac to one part Suprasec by volume, or one Daltolac to 1.06 parts Suprasec by weight.

REACTION CHARACTERISTICS

Cream Time 28-32 seconds
Rise Time 120-130 seconds
Tack Free time 110-120 seconds (after rise)

PHYSICAL FEATURES (Free Rise Foam)

Density 34-35kg/cubic metre
Closed Cell Content 95%

EQUIPMENT REQUIRED

Air or Electric Drill	Mixing Container
Protective Gloves and Clothing	Well Ventilated Area
Norski Cleaning Fluid	Breathing Respirator

RELEASING AGENTS

PVA may be used if releasing from a FRP mould, but it must be completely dry. Thin polythene film draped over the cavity before foaming gives a good clean skin. Alternatively, porous newsprint-type paper may be used which will adhere to the foam. Some folding and wrinkling will occur with both the polythene and newsprint paper.

MIXING AND POURING

Weigh out Part A, taking care to be in a well ventilated area, then add an equal amount of Part B Mix thoroughly with a mixer (2000rpm) for 20-30 seconds, remembering that cream time is approximately 30 seconds. Pour into the cavity, if multi-pouring, allow each mix to rise and exotherm between pours, if maximum physical properties are not essential, scoop out the jelly-like foam from the mixing pot and add it to the job.



Wash equipment with Norski Cleaning Fluid, but do not leave in containers, as polyurethane can cause the Norski Cleaning Fluid to gel. To help remove cured polyurethane, soak in methylene chloride.

TO CALCULATE THE REQUIRED AMOUNT OF FOAM

Work out areas to be filled in cubic metres, then multiply by 35

1 cubic meter of foam = 35 Kilograms (17.5 Kgs Part A +17.5 Kgs of Part B)

You must then allow for wastage and skin density. For buoyancy, to float a certain kilogram load, multiply by 0.035 to get the right quantity of foam required. If a large quantity of foam is required, it is better to make a number of small pours as pressure can be built in one large pour.

STORAGE INSTRUCTIONS

Suprasec contains a volatile fluorocarbon which boils at 23°C and should therefore be stored at 23°C or below. Daltolac should be protected from moisture contamination, and a storage temperature of 20°C to 30°C is recommended. When using, clean cap and neck of the tins that the product is supplied in thoroughly before re-sealing or residues will react with airborne water vapour causing permanent adhesion.

HANDLING PRECAUTIONS

Always use in a well ventilated area.

Wear suitable protective clothing and gloves.

Use respirators to avoid breathing vapours.

In case of contact with skin or clothing, wash immediately with soap and water.

In case of contact with eyes, wash with water and seek medical attention immediately.

WARNING

Contains Diphenyl-Methane Di-Isocyanate (MDI) toxic fumes when heated.

SUPPLIED

In the following sizes: 1kg, 2kg, 4kg, 10kg, 40kg.

SAFETY PRECAUTIONS: Do not use near fire or flames. Harmful or fatal if swallowed Use disposable gloves to avoid skin contamination. If resin comes into contact with skin, wash uncured resin off with soap and water. Wear safety glasses to avoid eye contamination. Mixed formulation contains Epoxy Resin and Amines. If swallowed do not induce vomiting. Give a glass of water. Contact a Doctor or the Poisons National Information Centre on 0800 764 766 (Urgent information only). Eye Contamination: Hold eyes open and flood with water for at least 15 minutes. See a Doctor immediately.

WARRANTY

Because the use of this product is beyond the control of the manufacturer, no liability or responsibility can be accepted for any loss or damage arising from its application or use.

Liability for faulty material is limited to product replacement only.