TRIDENT FOAMS LIMITED

TECHNICAL DATA SHEET
Tripor 226
High Density Polyurethane Foam Systems

TRIPOR 226 is a range of specially formulated high density, rigid foam systems which may be used to manufacture mouldings or as infill and relies on the thorough mixing of two low viscosity liquids by either hand or machine mix techniques. The second number after the "226" gives the nominal free rise density in kg/m³. All systems are used at a ratio of 1:1 by weight. Contains no CFC's or HCFC's and therefore has an Ozone Depletion Potential (O.D.P.) of zero. It also has a very low GWP (Global Warming Potential).

APPLICATIONS

- Used by the Engineering business for CNC machining
- Used in the model making industry.
- Structural infill GRP manufacturing, including components, sections and shaping.
- Slow reacting, good for larger mouldings & castings.

PROCESSING

The foam is produced by mixing the two Components A and B at a ratio of 1 to 1 by weight. Weighing out the liquids is the preferred method rather than by volume which can be inaccurate.

- In hand mixing: Component A should be pre-mixed for at least one minute to aerate it, before mixing with the Component B. Process between the temperatures of 18 – 25°C.
- After mixing the foam should be immediately transferred to the cavity or mould to be filled.
- Pouring should be finished before there is any significant amount of expansion.
- It is recommended for the foam to be restricted and not allowed to rise freely.
- Lower temperatures will give a slower reaction, higher temperatures faster.
- Reaction times will also be affected by the bulk mixed, larger amounts will give shorter times, small amounts longer times.
- Surfaces in contact with the rising foam should be at a temperature of at least 25°C.

TYPICAL PROPERTIES

	226/550	226 /450	226 /320	226 /220	226 /150
Resin: Tripor Component A	Clear, hazy liquid	Clear, hazy liquid	Clear, hazy liquid	Clear, hazy liquid	Clear, hazy liquid
Isocyanate: Tripor Component B	Dark brown liquid	Dark brown liquid	Dark brown liquid	Dark brown liquid	Dark brown liquid
Ratio A:B (by weight)	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1
Ratio A:B (by volume)	1.15 : 1	1.15 : 1	1.15 : 1	1.15 : 1	1.15 : 1
Cream Time - cup mix at 20°C	60 seconds	60 seconds	50 seconds	40 seconds	35 seconds
String Time - cup mix at 20°C	195 seconds	160 seconds	145 seconds	135 seconds	120 seconds
Rise Time - cup mix at 20°C	240 seconds	195 seconds	180 seconds	175 seconds	160 seconds
Density - free rise	550 kg/m^3	450 kg/m^3	320 kg/m^3	220 kg/m^3	150 kg/m^3

STORAGE & HANDLING

It is extremely important that the drums should be re-sealed immediately after use to prevent the entry of moisture which will adversely affect the resultant foam. The shelf life of the materials is five months when stored in sealed drums within the recommended temperature range of 10 - 30°C, but users are recommended not to hold in stock longer than necessary.

PLEASE SEE THE SEPARATE SAFETY DATA SHEETS BEFORE USING THESE PRODUCTS.
The data contained in this sheet is to our knowledge true and accurate, but recommendations are made without guarantee or warranty since application and conditions are outside our control. It is suggested that users should carry out their own tests to ensure 'Tripor 226' meets their requirements.

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