TRIDENT FOAMS LIMITED

TRIPOR TRICAST TANCAST AUTOFROTH AUTOPOR MHD

# TRIPOR 226

***'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, information on standard densities is given below, reaction times etc for intermediate systems will be between the times given for the nearest systems above and below them in density. All systems are used at a ratio of 1:1 by weight (or 1.15:1 by volume, but by weight is more accurate).

***'Tripor 226'*** 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).

## FOAM MANUFACTURE

The foam is produced by the mixing together of the two Components A and B at a ratio of 1 to 1 by weight. The Component A should be pre-mixed to aerate it, before mixing with the Component B. Best results are obtained by mixing with a stirrer in an electric or air drill, but acceptable results can be obtained by very thoroughly mixing by hand. After mixing the foam should be immediately transferred to the mould or cavity to be filled, pouring should be finished before there is any significant amount of expansion.

The foam should be processed between the temperatures of 18 - 25$^0$C, and cure up will be affected by the temperature of the surfaces in contact with the foam. The following times are typical for a Quality Control procedure for the checking of cream, string and rise times and measurement of the free rise density. The test is conducted at a temperature of 20$^o$C using suitable equal weights of Component A and Component B mixed together intensively for 10 seconds using a high speed stirrer. Immediately after mixing the chemicals are transferred to a second cup.

Following values are typical, lower temperatures will give a slower reaction, higher temperature faster. Reaction times will also be affected by the bulk mixed, larger amounts will give shorter times, small amounts longer times. The free rise density of the higher density systems will be affected by the amount of air mixed in during mixing.

| | 226/550 | 226 /450 | 226 /320 | 226 /220 | 226 /150 |
|---|---|---|---|---|---|
| Mixing Time | 10 seconds | 10 seconds | 10 seconds | 10 seconds | 10 seconds |
| Cream Time (from start of mixing to start of rise) | 60 seconds | 60 seconds | 60 seconds | 60 seconds | 60 seconds |
| String Time (from start of mixing to when a thread can be drawn from the rising foam with an inserted rod) | 190 seconds | 150 seconds | 150 seconds | 150 seconds | 150 seconds |
| Rise Time (from start of mixing to end of rise) | 230 seconds | 190 seconds | 190 seconds | 190 seconds | 190 seconds |
| Nominal Free Rise Density (weight of cups contents after removing head, divided by volume) | 550 kg/m$^3$ | 450 kg/m$^3$ | 320 kg/m$^3$ | 220 kg/m$^3$ | 150 kg/m$^3$ |
| 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 |

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## STORAGE & HANDLING

It is extremely important that the containers 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 four months when stored in sealed drums within the recommended temperature range of 10 - $30^0$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' meets their requirements.

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