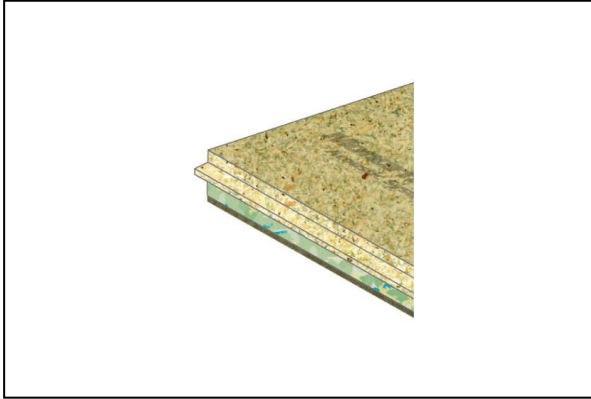


Monarfloor Tri-Deck Floor System



Description

Composite tongued and grooved acoustic flooring system comprising:

- 22mm thick chipboard deck
2400mm x 600mm, P5 V313 grade.
- High performance, non-flammable water based adhesive.
- 8mm Low Resonance Acoustic Chip (LRAC) foam with a density of 64kg/m³.
- 5mm High-density flame retardant sponge rubber underlay.

1. Chipboard Ingredients

Weyroc Particleboard -manufactured from small particles of wood bonded with urea - formaldehyde resin, or melamine / urea-formaldehyde resin and contains small quantities of paraffin wax.

Typical detailed composition as follows:

| | |
|--------------------------------|-----------|
| Wood | 82% - 84% |
| Solid resin | 8% - 10% |
| Water | 7% |
| Solid paraffin wax | 0.5% |
| Total extractable formaldehyde | 0.008% |
| Silica | < 0.05% |
| Green dye (solids) | 0 – 0.01% |

2. Adhesive Ingredients/Technical Data

| Adhesive | |
|---------------------|--|
| Chemical base | Polychloroprene |
| Solvents | Water |
| Viscosity | 300 – 800 cps @ 20°C |
| Total non volatiles | 55% - 58% |
| Specific gravity | 1.05 – 1.15 |
| Flammability | Non Flammable |
| Chemical resistance | Water, dilute acids, alkalis, & aliphatic oils |
| Service temperature | - 20°C > + 50°C |
| Colour | Neutral or Pink |
| pH | 11 - 13 |

Activator – Part A

| | |
|----------------------|--|
| Chemical Base | Synthetic Rubber / Resin Dispersion |
| Solvents | Water |
| Dilution solvent | Ready to use / Not to be diluted |
| Non volatile content | 56% - 58% |
| Specific gravity | Approx 1.10 @ 20°C |
| Flammability | No flash point |
| Chemical resistance | Water, dilute acids, alkalis, aliphatic oils |
| Service temperature | - 40°C > + 70°C |
| Colour | White, drying to clear film |

Activator – Part B

| | |
|----------------------|----------------------------|
| Chemical Base | Solution or inorganic salt |
| Solvents | Water |
| Viscosity | 15 cps @ 20°C |
| Non volatile content | 14% - 20% |
| Density | Approx 1.15 @ 20°C |
| Flammability | No flash point |
| Colour | Clear |
| Usage | Ratio Part A – Part B 10:1 |

Monarfloor Acoustic Systems

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3. Foam Ingredients/Technical Data

This polyurethane foam is produced by the reaction between a high molecular weight polyol and toluene diisocyanate (TDI) and/or diphenyl methane diisocyanate (MDI) in the presence of catalysts, surfactants and blowing agents, resulting in a flexible cellular product having a predominantly open-celled structure. Pigments are used to colour the foam. The final product, as supplied, will not contain any residual diisocyanate or blowing agent, but may contain traces of catalyst and surfactants, which give the foam its characteristic odour.

The basic polyurethane polymer is considered to be of low toxicity and should present no hazard from skin contact or by ingestion.

This foam contains additives for better fire performance. These will be present in the foam in small amounts and may be detected by smell and taste. They are in low order of toxicity and present in such amounts that would not be expected to be any hazard to skin contact or ingestion.

Foam dust, produced by buffing, crumbling, etc. will cause a nuisance and could cause irritation to the nose and throat if present in high concentrations in the air

4. Rubber Underlay/Technical Data

A combination of synthetic rubber, calcium carbonate extender, aromatic process oil and relatively small proportions of standard rubber processing chemicals including sulphur, zinc oxide and organic vulcanisation accelerators.

Typical detailed composition as follows:

| | |
|--------------------------------|-----------|
| Wood | 82% - 84% |
| Solid resin | 8% - 10% |
| Water | 7% |
| Solid paraffin wax | 0.5% |
| Total extractable formaldehyde | 0.008% |
| Silica | < 0.05% |
| Green dye (solids) | 0 - 0.01% |

General Guidelines

Storage Precautions

Storage areas for Monarfloor products should be segregated from work and process areas.

A Strict **No-Smoking Policy** should be applied to all areas where polyurethane foam is stored, handled, or used.

The chipboard is classified combustible, but not easily ignited. Boards are classified as Class 3 surface spread of flame (BS476).

Should the chipboard be involved in a fire, protection from the products of combustion should be provided by the use of breathing apparatus. Products of combustion are essentially similar to those of solid wood.

Monarfloor systems should be stored in a dry, well-ventilated area.

Note: In poorly ventilated areas, particularly under moist and warm conditions, small traces of formaldehyde may be emitted. Guidance note EH 40/96 from the Health and Safety Executive lays down limits for formaldehyde exposure.

Handling

Care should be taken during normal manual handling to protect hands from small splinters of wood.

It is advised that copies of the following publications be obtained:

- Health and Safety Executive (HSE) guidance note GS3. 'Fire risk in the storage and industrial use of cellular plastics'.
- HSE guidance note HS (G) I. 'Safe use and storage of flexible polyurethane foam in industry'.
- HSE guidance note HSG64. 'Assessment of fire hazards from solid materials and the precautions required for their safe storage and use'.

The above publications are available from HMSO bookshops

Product Information & Safety Data Sheet

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Publications from the British Rubber Manufacturers Association (BRMA):

- Flexible polyurethane foam: its uses and misuses
- Fifty questions on flexible polyurethane foam
- Flexible polyurethane foam - the facts
- Flexible polyurethane foam - misconceptions
- Flexible polyurethane foam - the facts
- Flexible polyurethane foam – misconceptions

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