

# Product Information & Safety Data Sheet

## Monarfloor Deck 9 Floor System

### DESCRIPTION

Composite tongued and grooved flooring system comprising:

- 9mm thick Medium Density Fibreboard, moisture resistant 1200mm x 600mm
- High performance, non flammable water based adhesive.
- Low resonance acoustic chip foam 8mm thick, with a density of 80kg/m<sup>3</sup>

### 1:1 CHIPBOARD INGREDIENTS

**MDF** is manufactured from small fibres of wood bonded with urea-formaldehyde resin, and contains small quantities of paraffin wax.

Typical detailed composition as follows:

- Wood 83% - 85%
- Solid Resin 8% - 10%
- Water 6%
- Solid Paraffin Wax 0.5%
- Total Extractable Formaldehyde 0.008%
- Silica <0.05%

### 2:1 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:** Resistant to water, dilute acids, alkalis and aliphatic oils  
**Service Temperature:** -20°C to +50°C or up to 70°C in low stress applications  
**Colour:** Neutral or pink  
**pH:** 11 - 13

#### • **Activator - Part A**

- Chemical Base:** Synthetic rubber / resin dispersion  
**Solvents:** Water  
**Dilution Solvent:** Supplied ready to use and should not be diluted  
**Non Volatile content:** 56 - 58%  
**Specific Gravity:** Approx 1.10 @ 20°C  
**Flammability:** No flash point  
**Chemical Resistance:** Resistant to water, dilute acids, alkalis and aliphatic oils  
**Service Temperature:** -40°C to +70°C  
**Colour:** White, drying to a clear film

#### • **Activator - Part B**

- Chemical Base:** Solution of 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** to **Part B** approx: 10:1

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### 3:1 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.

### MONARFLOOR SYSTEMS - GENERAL HOUSEKEEPING

#### 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 are 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

- Publications from the British Rubber Manufacturers Association (BRMA):

Flexible polyurethane foam: It's uses and misuses

Fifty questions on flexible polyurethane foam

Flexible polyurethane foam - the facts

Flexible polyurethane foam - misconceptions

**BRMA, 90-91 Tottenham Court Road, London, W1P 0BR**

**Whilst the company has taken every care in the preparation of these data sheets, no liability will be accepted for any loss or damage arising from reliance upon information which has been prepared specifically for the purposes of Product information and safety. The details of composition of products are given entirely for the purposes of information and as the composition may vary from time to time are not given as warranty of specification of products or their use.**

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