

**POLYPLAY**From the **Polyurethane Systems House**

Polyurethane Systems built for

**SAFETY**

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## Installation guide and product data sheet

# WET POUR SYSTEM

Preparation is the key to any successful installation. The ground is prepared and levelled prior to the laying the initial base surface. Here, a 35mm layer of SBR base is used followed by a 15mm layer of coloured EPDM. It can then be cut and shaped into patterns or different colours can be laid up against the next colour.

Base layers typically contain 8% to 10% binder by weight of finished bound product and the topping 18% to 22%. Care must be taken to prepare the substrate and ensure clean, dry working conditions.



## Storage

### Binder

Dry conditions > 3°C to < 35°C  
Shelf life of 6 months for sealed containers  
(Avoid storing part used containers)

### Granules

Dry conditions

## Packaging

### Binder

Supplied in 1090kg IBCs, 220kg drums or 25kg plastic kegs.

### Granules

Supplied in 25kg plastic bags and palletised.



## Technical Performance

### Technical Property

Surface thickness	8mm to 110mm
Surface design	Trowel or machine finish
Hardness	65 to 70 shore A
Permeability	Porous
Abrasion	RV32 (DIN 18032/6)
Dimensional stability	98%
Tensile strength	>1.2 n/mm <sup>2</sup>
Elongation at break	> 120%
Effect of lit cigarette	Non combustible
Ball rebound	98%
Sliding resistance	Dry – 86 (BS7188:1988) Wet – 45 (BS7188:1988)
Type of surface	Jointless – cast in situ
NCO Content	Binder 8.0% to 9.5%
Specific Gravity	EPDM 1.50 to 1.60 Binder 1.07 @ 200c
Vicosity - POLY46	2200 – 3600 mpas @ 250c
- POLY811	3200 – 4600 mpas @ 250c

These UV values are for the EPDM without binder, measured on a standard grey scale after 1000 hrs exposure. This is equivalent to 3 to 7 years normal weathering. A reading of 5 is no change.

See overleaf for technical data and maintenance guides.

### Specification

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Trowel or machine finish
65 to 70 shore A
Porous
RV32 (DIN 18032/6)
98%
>1.2 n/mm <sup>2</sup>
> 120%
Non combustible
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Dry – 86 (BS7188:1988) Wet – 45 (BS7188:1988)
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2200 – 3600 mpas @ 250c
3200 – 4600 mpas @ 250c

## UV Resistance

COLOUR	1000 hrs Gray Scale
Red	4-5
Earth Yellow	4
Eggshell	4
Beige	4
Light Grey	4
Dark Grey	4
Green	3-4
Blue	3-4
Light Blue	3-4
Orange	3-4
Light Green	3
Purple	3
Bright Yellow	3

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## Wet Pour performance and maintenance guide

### The British standard

MRI-Polytech are an ISO 9001: 2008 company so you have the assurance that all products have been produced to the highest of British standards. All surfaces should be installed to BS or DIN safety standards. Surfaces can be installed from 25mm to 110mm dependant on usage and equipment on site.



### Critical Fall Heights

As part of its commitment to excellence, MRI-Polytech commissioned a 'rapra' test to determine the Critical Fall Height HIC values of the range of playground safety surface systems.

#### MRI Polytech **rapra** test results

CONCRETE	RESULTS
35mm sample	CFH obtained of 1.40m
45mm sample	CFH obtained of 1.48m
55mm sample	CFH obtained of 1.65m
65mm sample	CFH obtained of 1.77m
75mm sample	CFH obtained of 2.35m
90mm sample	CFH obtained of 2.79m
100mm sample	CFH obtained of 3.23m

To view the full **rapra** results and MRI data sheet please contact the MRI Polytech technical team on **01625 575737**  
or visit [www.mri-polytech.com](http://www.mri-polytech.com)



### Maintenance of play Surfaces

Routine maintenance will ensure that the playing surface is kept clean and delivers consistent performance.

#### Essential preventative steps

- Sweeping leaves and other detritus from the surface
- Brushing the surface to prevent any accumulation of an impervious skin on the surface that may impair drainage.
- Ensuring that only appropriate footwear is used on the surface, high heeled shoes, studs and spikes are not appropriate.
- Inspecting surface for signs of damage and arranging remedial repairs promptly

#### Keeping the Surface Clean

Leaves, flowers, pine needles and other detritus should not be allowed to remain on the surface for any length of time. These rapidly rot down forming a drainage-inhibiting 'skin' within the surface and providing a growing medium for algae moss and weeds.

#### Stain Removal

Most stains are easily removed with a solution of hot (not boiling) water and household detergent, such as washing-up liquid. The removal of chewing gum is achieved using a freezing aerosol. Heavy oil marks are removed with a cloth and methylated spirits.

#### Weeds

No matter how much care is taken weeds may appear on the surface usually as a result of wind blown seeds. Small number of weeds may be removed by hand without damaging the surface. Localised areas of self-set weeds can be treated with domestic weed-killers without causing damage to the surface. Oil based weed killers must not be used.

#### Snow & Ice

Snow and ice are not harmful and can safely melt through. Brushes or rubber edged scrapers must be used to remove snow. Metal shovels and scrapers will damage the surface and must not be used; neither should chemical de-icing agents be used. If heavy rain falls immediately after a very cold spell, the surface may become flooded for a few hours. Do not worry, the ice will soon melt and the surface will then drain normally.

#### MAINTENANCE SCHEDULE

##### Weekly

Clear leaves, rubbish and debris from the surface; dealing with any new weeds, moss or algae. Inspect whole surface for signs of damage, seek advice from manufacturer as required.

##### Twice a Year

Check for moss and algae growth, food stains, shoe marks and clean as appropriate. Inspect the whole surface for signs of damage, seeking advice from the manufacturer as required.

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