POLYPLAY®
DATASHEET

PLIXXENT.

WET POUR SYSTEM
INSTALLATION GUIDE AND PRODUCT DATA SHEET

Preparation is the key to any successful installation. The ground is prepared and levelled prior to laying the initial base surface. Here, a 35 mm layer of SBR base is used followed by a 15 mm 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 1090 kg IBCs, 220 kg drums or 25 kg plastic kegs.

Granules
Supplied in 25 kg plastic bags and palletised.

Technical Performance

TECHNICAL PROPERTY	SPECIFICATION
Surface thickness	20 mm to 110 mm
Surface design	Trowel or machine finish
Hardness	65 to 70 shore A
Permeability	Porous
Abrasion	BSEN 7188
Toxicity	EN71-3:2013+A3-2018
Tensile strength	0.40 MPa
Elongation at break	>75 %
Source of ignition	<35.0 mm
Ball rebound	98 %
Slip resistance	Dry – 91 (BS7188:1998) Wet – 50 (BS7188:1998)
Type of surface	Jointless – cast in situ
NCO Content	Binder 7.5 % to 11 %
Specific Gravity	EPDM 1.50 to 1.60 Binder 1.05–1.10 @ 20°C
Viscosity - POLY46 Viscosity - POLY811	2200–3600 cPs @ 25°C 3200–4600 cPs @ 25°C

UV Resistance

COLOUR	1000hrs Grey 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

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.

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PERFORMANCE AND MAINTENANCE GUIDE

Quality Assurance

Polytech Liquid Polymers is an ISO 9001:2015 company so you have the assurance that all products have been produced to the highest possible standards. All surfaces should be installed in accordance with the relevant BSEN safety standards. Surfaces can be installed from 20 mm to 110 mm thickness dependant on usage and equipment on site.

Critical Fall Heights

As part of its commitment to excellence, Polytech Liquid Polymers commissioned a LABOSPORT test to determine the Critical Fall Height HIC values of the range of play-ground safety surface sytems. The products which were tested met the requirements of both the BSEN 1177 and BSEN 7188 standards.

Polytech Liquid Polymers LABOSPORT test results

CONCRETE BSEN1177	RESULTS
40 mm sample	CFH obtained of **1.30 m**
50 mm sample	CFH obtained of **1.50 m**
60 mm sample	CFH obtained of **1.70 m**
70 mm sample	CFH obtained of **2.10 m**
90 mm sample	CFH obtained of **2.40 m**
110 mm sample	CFH obtained of **2.70 m**
130 mm sample	CFH obtained of **3.00 m**

To view the full LABOSPORT results and Polytech Liquid Polymers data sheet please contact the Polytech Liquid Polymers technical team on **+44 1625 575737** or visit **www.plixxent.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 numbers of weeds may 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 icy 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 the whole surface for signs of damage, seek advice from the 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.