

vebrobound Play: colourful wet pour safety surfaces

sustainable, safe, colourful
surfacing for playgrounds
& recreational areas



vebropolymers

vebrobound Play

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Wet pour rubber crumb play surfaces are used in playgrounds, parks and recreational areas to deliver a brightly coloured, shock and impact absorbent surface that will ensure optimum safety underfoot.

vebrobound Play is a two layered system that incorporates a base shock pad made up of SBR (Styrene Butadiene Rubber) granules followed by a coloured wearing layer made up of EPDM (Ethylene Propylene Diene Monomer) rubber crumb. Both layers are bound using a clear polyurethane binder.

Wet pour rubber crumb play surfaces are tested to BS EN 1177 to ensure compliance with safety and critical fall height ratings to use with various playground equipment including swings and climbing frames.

key performance **benefits**



vebrobound Play is environmentally friendly and micro-plastic free



vebrobound Play is SUDs compliant, allowing surface water to drain quickly



vebrobound Play is available in a wide range of bright colours



vebrobound Play contains high levels of recycled content (up to 80%)



vebrobound Play can be installed in a variety of patterns and designs



vebrobound Play offers excellent fall protection from critical heights



vebrobound Play is shock absorbent, minimising injury risk



vebrobound Play surfaces require minimal maintenance

calculating **safe** surface depth

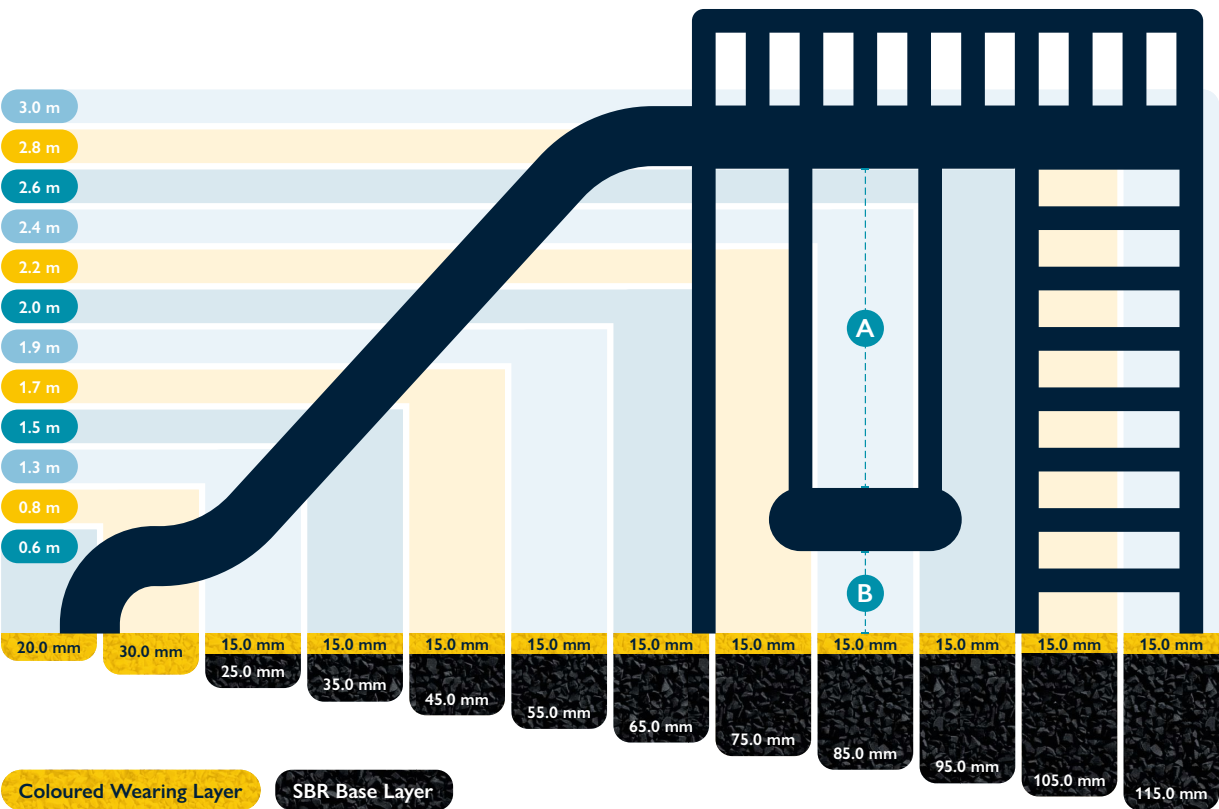
Ensuring the safety of children using play areas is paramount. As such the depth of the surface to be installed is calculated according to both the Free Fall Height (FFH) of any play equipment in-situ alongside the Critical Fall Height (CFH) of the surface.

According to European Standards BS EN 1177 safety flooring is required for all equipment with a critical fall height higher than 0.6 m. However, even for these areas under 0.6 m, we will always advise that some protective surfacing should be laid.

In a nutshell, the higher the equipment that a child can stand on (maximum 3.0 m), the deeper the depth and the greater the area needs to be for the protective surfacing underneath.

CFH: the distance below which life-threatening injuries are not expected to occur based on the depth of the protective surface.

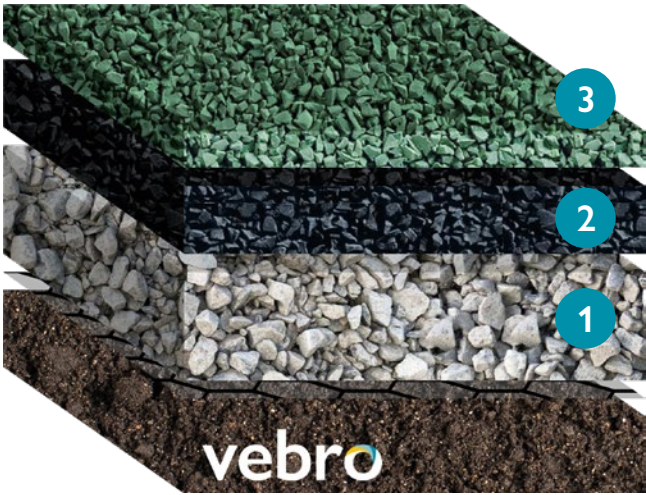
FFH: a measurement of distance between the highest designated surface on play equipment and the playground's protective surface.



Swings are slightly different to stationary play equipment. The FFH for swings is measured from the centre of the stationary swing seat at 60 degrees.

To calculate this, divide the chain length **A** by 2 and add the distance from the seat to the ground **B** (as illustrated).

system design



- 1 MOT type 1 or MOT type 3 with geotextile membrane
- 2 **vebro**bound Play (SBR Shock Pad)
*vebro PU Crumb Binder with
vebro Rubber Crumb Granules (Base SBR) (2.0 – 6.0 mm)*
- 3 **vebro**bound Play (TPV Wearing Layer)
*vebro PU Crumb Binder with
vebro Rubber Crumb Granules (1.0 – 4.0 mm)*

consumption rates

SBR Base Layer				Coloured Wearing Layer		
	Depth (mm)	vebro Rubber Crumb Granules (Base SBR) 2.0 – 6.0 mm (kg)	vebro PU Crumb Binder @ 10% (kg)		vebro Rubber Crumb Granules (Coloured) 1.0 – 4.0 mm (kg)	vebro PU Crumb Binder @ 20% (kg)
40	30	18.75	1.88	10	8.33	1.25
50	40	25.00	2.50	10	8.33	1.25
60	50	31.25	3.13	10	8.33	1.25
70	60	37.50	3.75	10	8.33	1.25
80	70	43.75	4.38	10	8.33	1.25
90	80	50.00	5.00	10	8.33	1.25
100	90	56.25	5.63	10	8.33	1.25

*Stone substrates must have a minimum of 40 mm of **vebro**bound Play whereas solid bases (including concrete or tarmac) may have as little as 20 mm.

colours available



Please note, the applied colours may differ from the examples shown and may appear darker when wet. For samples or pricing contact your local Vebro Polymers team.

technical profile

Performance Criteria	
Surface Thickness	> 35.0 mm
Hardness	Shore A (65 – 70)
Permeability	Permeable
Abrasion	RV32 (DIN 18032/6)
Dimensional Stability	98%
Tensile Strength	>1.2 N/mm ²
Elongation at Break	>120%
Fire Resistance	Non-combustible
Ball Rebound	98%
Sliding Resistance	Dry: 86 Wet: 45
Specific Gravity	Binder: 1.10 g/cm ³

The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions. The slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed. System Data Sheets are regularly updated and it is the user's responsibility to ensure they obtain the most recent version. The most recent versions can be found at vebropolymers.com.

cleaning & maintenance

Routine maintenance will ensure that the **vebrobound** Play surface is kept clean and delivers consistent performance.

- ✓ Regularly sweeping leaves and other detritus from the surface
- ✓ Ensuring that only appropriate footwear is worn (high heeled shoes, studs and spikes are not appropriate)
- ✓ Regularly brushing the surface to ensure drainage does not become impaired
- ✓ Inspecting surface for signs of damage and arranging remedial repairs promptly

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 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 icy for a few hours. Do not worry, the ice will soon melt and the surface will then drain normally.

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.



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Please note: the information in this guide is subject to change and the most recent technical data should be sought for accurate, up-to-date product or system information. Errors & omissions excepted. The applied colours may differ from the examples shown within this guide. Actual samples should always be viewed before making a final decision, especially if colour accuracy or matching is key to your decision.

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