

## **Guidance for the installation of Miroad Wet Pour Rubber Crumb**

Miroad's EPDM and SBR Rubber Crumb products have been developed to work with our PU Binder and laid as a continuous wet pour surface.

If you are unsure of the depth of surface required to meet any Fall Height regulations or recommendations please contact us and we will advise you.

The table below will give you some help with this, please bear in mind this table is meant only as a guideline.

<b>Depth of Rubber</b>	<b>Potential Fall Height</b>
40mm	1.2 metres
50mm	1.5 metres
80mm	2.0 metres

To create the most durable and long lasting surface it is important that the area is dry, well drained and stable.

Wet Pour Rubber Crumb can be laid on existing solid surfaces such as Tarmac or Concrete but you must ensure that there is good drainage. We do not recommend laying directly on to unprepared surfaces such as bare soil or grass. If the area you intend to use is currently soil, grass or other unmade surface then we strongly advise that a subbase of a minimum of 100 mm of a compacted aggregate, such as MOT Type 1, should be laid first with a geotextile membrane laid on top to inhibit weed growth.

A firm edging should be installed around the perimeter of the area either using our Rubber Kerbs, treated timber or other permanent edging.

Wet Pour Rubber Crumb should not be laid in damp or cold conditions, 5°C is the minimum temperature advised. Our PU Binders are moisture activated and any contact with moisture either through rainfall or existing damp surfaces during installation will cause the binder to react and cure much more quickly, resulting in potential problems with the finished surface. Check there is no rain forecast for at least 48 hours from when you start the installation.

A Wet Pour Rubber Surface is normally laid in two separate processes, firstly the base layer of the larger Black SBR Rubber Crumb, which forms the shock pad of the surface, this is normally the thickest layer. Followed by a thinner top coat, or wear layer, which may be a Coloured or Black EPDM Rubber Crumb or a finer grade SBR Crumb.

The depth of the top layer is usually 10-15 mm where the base layer can be 20 – 50 mm thick, or deeper, depending on the fall height protection required.

To mix the Rubber Crumb and Binder it is common practice to use a forced action pan or paddle mixer, which are widely available for hire on a daily or weekly basis.

For the **Base Layer** we recommend a mixture ratio of 12% PU Binder to Rubber  
**12 kilos of PU Binder per 100 kilos of SBR Rubber**

For the **Top Layer** we recommend a mixture ratio of 20% PU Binder to Rubber  
**20 kilos of Binder per 100 kilos of Rubber Crumb**

When you've prepared the sub base you can begin the mixing of crumb and binder. Allow the material to mix for between 4-6 minutes per batch. Reducing this mixing time will result in the surface taking much longer to set. However leaving it too long mixing will make it more difficult to spread so this timing is critical. When the batch has been mixing for the correct length of time, empty it from the mixer in to a wheel barrow and take it immediately to the site to be poured out and laid.

The mix should be trowelled evenly over the area to the required depth using a depth block and straight edge then lightly rolled to ensure a level surface. As the rubber crumb is obviously very adhesive at this point we advise continuously lubricating your trowels and rollers with 'soapy' water.

We recommend that you coat the edging boards with a layer of binder as you work up to them with the rubber crumb. This will help to create a strong adhesion between the finished surface and the edging.

White Spirits may be used to clean your tools once you've finished.

The following day repeat the process using the finer rubber crumb for the top layer.

The area should be ready to walk on within 24 hours but we recommend it not be used for 72 hours after completion.

### **Tools you may require**

Forced action pan (paddle) mixer  
Wheelbarrow  
Light Roller  
Trowels  
Measuring Jug and Funnel  
Straight Edge  
Depth Block  
Bucket  
Gloves  
Washing up liquid

**For more information on Miroad products, their installation and maintenance, please contact us  
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