

Resin Bound Shrinking



All thermosetting resins like polyurethanes will shrink upon curing – that means for resin bound it can shrink around the perimeter. Typically, it's very minimal, but we've seen this Summer examples of wider shrinkage on the general resin bound forums. The reason is shrinkage will occur more when curing under stress, which basically means excessive heat. The extreme stress of the heat generated from the reaction will shrink and disfigure the resin.

Prevention

There is a way to mitigate that shrinkage and support the system at the edges with an epoxy primer – mix a two part epoxy primer like our Epiprime and prime any vertical surfaces the resin bound will come into contact with it.

It should be done at the start of the day, and allowed to tack off for when laying resin up to it. This will really help to prevent pulling away from the perimeter as it's curing (Curing will occur for about 30 days to some extent).

Some edges are better than others to lay to, for example putting a metal trim in front of a wooden sleeper edge.



Solutions or Remedials

In general if you experience shrinking on your projects it will settle and reduce as the weather changes, it is a reaction to heat. If left alone as it cools down it will go back to normal.

If you experience extreme shrinking you can infill the area but it is best to see if it settles first as this may induce cracking.

If in doubt of any of the above then please contact the technical team:

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