



## Pin Hole Repairs & Surface Preparation

**Here's a method to deal with pin holes in a concrete surface.**

1. Clean all surfaces according to normal paint application procedures recommended by the supplier. Additional steps such as steam cleaning or chemical washing followed by drying may be necessary.
2. Once surfaces are thoroughly dry and if excessive pin holes are found, particularly in older fibreglass or concrete - render pools, it is best to address these issues after the first coat of sealer – primer.

**3. Application:**

- To the prepared, clean and dry surface apply the E2100 water-based epoxy as per the PnF/E4115 Application Notes. Allow to cure well. (24- 48hrs)
  - Use West System 105 Epoxy with Medium-Fast Hardener or an equivalent product. Begin by mixing Part A with microfibers (refer to Item 3 below) to achieve a homogeneous mix.
  - (Note: See details at <https://www.westsystem.com/products/105-system/>)
- And
- <https://www.westsystem.com/products/205-fast-hardener/>.

3A. Incorporate microspheres to achieve a thick, creamy consistency.

Details at

[https://www.westsystem.com.au/west\\_product/413-microfibre-blend/](https://www.westsystem.com.au/west_product/413-microfibre-blend/)

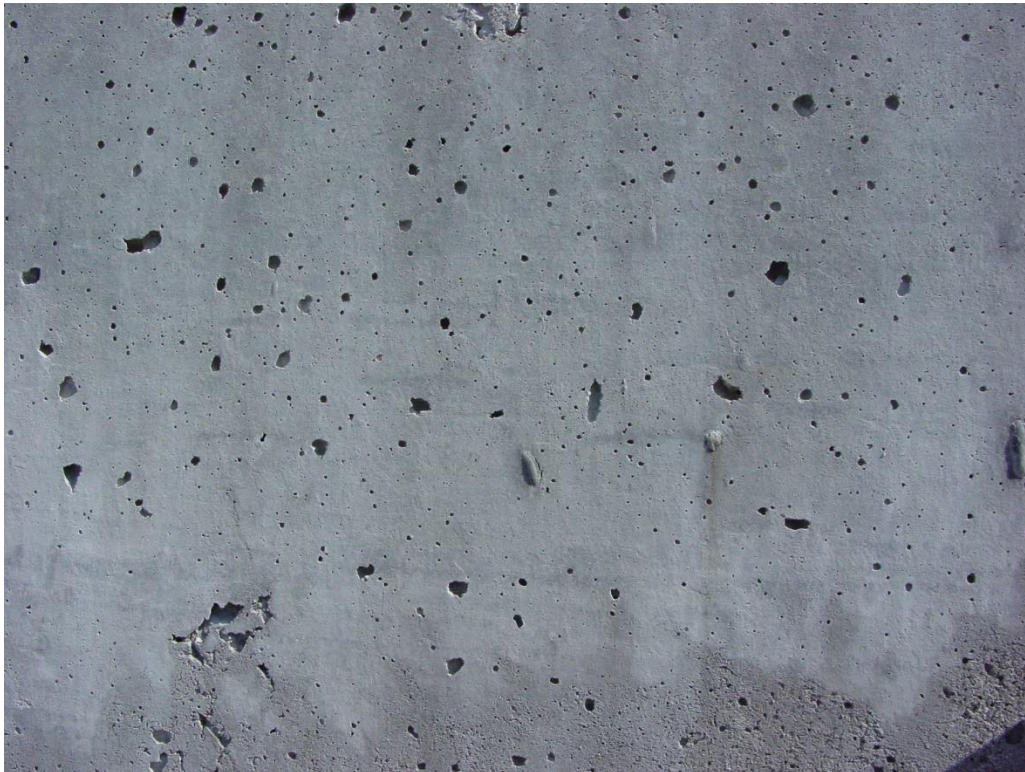
It's crucial to mix small batches at a time without adding hardener at this stage.

3B. After allowing the mixture to rest briefly, it is ready to use. Maintain the correct ratio:

- Ratio: 5 parts resin to 1 part hardener by volume. Use ratio pumps to ensure precise mixing. For instance, if you dispensed one stroke of resin, match it with one stroke of hardener for that batch. Mixing must be thorough. The 105 Epoxy Resin®/205 Fast Hardener system forms a strong, moisture-resistant bond with excellent barrier coating properties.
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### Cure Time:

- Pot life (100 grams): 9 to 12 minutes at 72°F (22°C).
  - Working time (thin film): 60 to 70 minutes at 72°F (22°C).
  - Full cure: 6 to 8 hours at 72°F (22°C).
4. Apply the mixture over the surface using a putty knife or plastic scraper, pressing firmly to replace trapped air and fill damaged areas. Remove excess material before it dries completely to minimize sanding. Clean and wipe the surface to leave the filled holes with minimal or no excess material within 9 minutes (work swiftly).
  5. After completing an area no larger than 1 square metre, wipe down with an acetone-soaked cloth to remove all excess and ensure a smooth, even surface that requires no additional labour. Repeat if necessary to reduce pinholes and imperfections.
  6. Allow the repaired areas to cure overnight. Clean the surface and maintain standard paint application procedures, considering factors such as humidity, temperature, and dew points.
  7. Proceed with normal application of primer - sealer (again) and topcoats as recommended by the PnF Application Notes.



This system will fill these blow holes and indentations quickly and effectively leaving a smooth surface to coat. Suitable for fibreglass, concrete (bare or painted) surfaces. Just make sure all surfaces are clean and dry before carrying out this process.