

# MIXING RATIOS, TECHNIQUES & HOMOGENEITY

## OVERVIEW

---

Proper mixing of multi-component resinous coatings ensures chemical reaction, uniform color, and consistent performance. Incorrect ratios, poor mixing, or uneven dispersion can lead to incomplete curing, soft spots, adhesion failure, or visual defects.

### **Key Guidelines**

- Follow Exact Manufacturer Ratios (A:B or A:B:C).
- Use Clean Tools: Contamination can alter cure chemistry.
- Mix Thoroughly: Scrape sides and bottom of containers.
- Mechanical Mixers: Recommended for large batches to maintain uniformity.
- Monitor and Verify ambient temperature, humidity and dew point is within manufacturer specification.
- Check product temperatures and pre-condition as necessary.

### **Techniques**

- Set out product and group into components.
- Pre-mix components to ensure all solids are in suspension and/or pigment settling is non-existent.
- Combine components in clean, dry container.
- Mix slowly to avoid air entrapment unless instructed otherwise.
- Avoid pulling mixing paddle in and out of the mix to avoid air entrapment.
- Mix product for the specified amount of time to ensure a thorough and homogenous mix.
- Observe viscosity and color uniformity before application.
- Always use mixed product within specified pot life.
- Utilize same person for all mixes on project to reduce opportunities for error.

### **Best Practices**

- Follow mix station set up recommendations and mixing procedures listed in products Technical Data Sheet (TDS).
- Clean mixing tools prior to mixing different products to avoid contamination.
- Use clean buckets when mixing different product to avoid contamination.