



## **Topic Hub: Paint & Coating Manufacturing    Subsection : Operations**

A typical paint and coatings manufacturer uses the following process steps to produce a final product:

### **Formulation**

Paint formulations are designed in the laboratory and raw material specification issued to the production areas.

### **Milling or grinding of pigments**

Pigments are ground and milled to a desired solid size and coloration.

### **Mixing operations**

Resins, dry pigment, and pigment extenders are placed in a high-speed mixer. After initial mixing, the batch is transferred to a mill for additional grinding and mixing. Next, the paint base or concentrate is transferred to an agitated tank where tints and thinner and the balance of the resin are added.

### **Filtering operations**

Upon reaching the proper consistency, the paint is filtered to remove any non-dispersed pigment and transferred to a loading hopper.

### **Filling operations**

From the hopper, the paint is poured into cans/drums, labeled, packed, and moved to storage.

### **Equipment Cleaning operations**

All equipment is thoroughly washed (with solvent or water).

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**The Paint & Coating Manufacturing Topic Hub™ was developed by:**



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