

# Klear Kast 221

## POLYMER COATING

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### TYPE:

Klear Kast is a two-component 100% solids polymer coating which will harden to a "wet-looking", "glass-like" surface when measured and mixed properly.

### ADVANTAGES:

- Convenient 2 to 1 mix ratio
- Liquid in form & yet contains no volatile solvents
- Adheres to most materials used in construction
- Rapid gain of physical properties
- Non-flammable
- High tensile and compressive strength
- No offensive odor
- No shrinkage

### TEST PROPERTY

### VALUE

Mixed Viscosity,poises	43
Gel Time, min. @ 25° C	40
Water Absorption, %	0.1
Color mixed	clear
Compressive strength, psi @ 24 hr.	5035
Shelf Life	1 yr. min.

**PACKAGING:** Klear Kast is available in 3 gallon or 15 gallon units

### Preparation:

The material, room and object to be coated should be between 60°F - 90°F.

Mixing containers should be cylindrical with smooth, flat walls and a flat bottom.

Stirring paddle must have a straight edge to allow user to constantly scrape the sides and bottom of mixing container.

### SURFACE PREPARATION:

Surface to be coated must be dry and free from dust and dirt. Level the surface to ensure even coating thickness. Porous woods or materials require a thin coat of coating to prevent air from escaping from the wood into the curing Klear Kast. Allow seal coat to cure at least 5 hours before application of finish material.

**MIXING:**

Mix part A with part B at a ratio of 2 to 1 by volume. Do not alter mix ratio. Proportion components into a clean pail and mix for approximately 3 minutes, be sure to continually scrape material from sides and bottom of container. Inadequate mixing will result in uncured material resulting in soft spots throughout the surface.

Pour as soon as mixed. Spread coating over entire surface with a natural bristle brush, do not use back and forth brushing technique, use brush only to push material to completely cover area. Material will self level.

Torching (propane) is a good method for releasing air bubbles. Torch immediately after pouring and spreading and then again within 10 minutes. Do not touch flame to Klear Kast. Use a swift even sweeping motion keeping the flame approximately 1/2 inch from surface.

**YIELD:**

Use 4 - 6 ozs. klear Kast/ sq. ft.

One gallon mixed material will cover 25.5 sq. ft at 1/16 inch.

**LIMITATIONS:**

Do not thin Klear Kast solvent will prevent proper cure.

Exposure to temperatures (after cure) above 200 ° F not recommended.

**CAUTION:**

Pot life is dependent upon material temperature and quantity mixed.

The greater the mass the shorter the pot life.

Increased mass and temperature result in higher exotherm and shorter pot life.

**STORAGE:**

Store inside in tightly closed containers at moderate temperatures. Opened containers should be resealed as soon possible to prevent moisture contamination.

**CLEAN UP:**

Pilgrim #5 Cleaner is formulated to remove uncured material from tools.

**HANDLING PRECAUTIONS:****FOR INDUSTRIAL USE ONLY!**

May produce skin irritation and on prolonged contact may cause serious skin sensitization or other allergic responses. Skin contact should be avoided by use of protective clothing such as rubber gloves and eye protection. Any skin coming in contact with resin should be washed thoroughly with soap and water. Eye contact should be avoided; should it occur, flush thoroughly with water for at least 15 minutes and contact a physician. SPI Classification 4. Consult MSDS for complete information in safety and handling.

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## **ADDITIONAL MIXING INSTRUCTIONS**

### **BEFORE MIXING:**

Polymer should be used in a room where humidity is under 60% and temperature is at least 75°F-85°F when pouring. Condition Klear Kast to 75°F-85°F before mixing.

### **1. MEASURING:**

Measure 2 parts resin to 1 part hardener. Measure exact amount of both resin and hardener in separate measuring cups. Do not add more hardener than resin as this will cause the finished coating to remain tacky. Do not guess at measurements or try to estimate.

### **2. MIXING:**

In a clean container, mix the measured resin and hardener. Be sure to scrape sides and bottom of cups containing resin and hardener when pouring into container to be mixed. Stir vigorously for about 3 minutes. In order to ensure a beautifully finished product, it is extremely important that the resin and hardener are thoroughly mixed. If bubbles appear, do not worry (see step 4). Mix only the amount you are going to use. After approximately 3 minutes of mixing, transfer the entire batch into a second clean cup. Using your stir stick to scrape the sides and bottom, totally empty the first cup into the second. cup. Mix an additional 60 seconds and pour immediately. Larger batches of 1 quart or more will require 6-8 minutes of mixing with a straight sided paint paddle. NOTE: When mixing large amounts of Klear Kast, the longer mixing time will cut back on your working time. Also, a large amount of mixture will setup faster in its container.

### **3. POURING IMMEDIATELY:**

As soon as Klear Kast is mixed, pour evenly over the surface. A brush may be used for spreading and for touching up sides.

### **4. BUBBLE BREAKING:**

After a few minutes, bubbles will rise to the surface. They may be broken by using a propane torch. Hold the flame about 1 inch from the resin surface and sweep rapidly across until bubbles disappear. You may need to go back and over the surface again with the torch approximately 10 minutes later. Do not torch surface too close to curing time as it may make permanent waves in the surface. If there is a stubborn bubble, just pop it with a toothpick.

### **5. CURING:**

FOR BEST RESULTS, THE ROOM TEMPERATURE SHOULD BE BETWEEN 75° AND 80°F. THE COATED ITEM SHOULD BE ALLOWED TO CURE FOR 2 DAYS IN A DUST FREE ROOM.