



Imperial Epoxy

Clear Two Component 100% Solid Epoxy Coating

Technical Data and Application Instructions

PRODUCT DESCRIPTION AND USE: Imperial Epoxy is a low viscosity, 100% solids resin system. When correctly applied, this material cures blush-free and provides an outstanding balance of physical strength, flexibility and chemical resistance. Imperial Epoxy has considerably lower viscosity than most competitive products providing improved handling at cooler temperatures and exceptional troweling characteristics.

CHEMICAL COMPOSITION: Modified Bisphenol A epoxy resin crosslinked with aliphatic and cycloaliphatic polyamines.

PHYSICAL PROPERTIES:

Mixing Ratio, by Volume.....2-1
Solids Content, %100
Viscosity, cps (at 77°F).....250
Pot Life (at 77°F).....35 minutes

Cure Time:

Dry to Touch.....6 hours
Light Use.....16 hours
Full Cure.....7 days

PERFORMANCE PROPERTIES:

Tensile Strength, psi (ASTM D-638).....6,230
Ultimate Elongation, % (ASTM D-638).....11
Compressive Yield Strength, psi (ASTM D-695)...9,850
Ultimate Compressive Strength (ASTM D-695)...19,501
Ultimate Flexural Strength, psi (ASTM D-790)....9,680
Hardness, Shore D (ASTM D-2240).....83
Bond Strength to Concrete (ACI 503.4-2.3.2.2).....*concrete fails before loss of bond*

SURFACE PREPARATION: Concrete must be completely cured and be clean, dry, and structurally sound. Please be aware that different concrete countertop mixes have large variances in curing times! Check with your specific manufacturer for cure times. Surface should be abraded or acid etched to a minimum 5 mil profile.

MIXING INSTRUCTIONS AND POT LIFE: **Proper mixing is essential to application success.** Combining ratio is 2 parts "A" to 1 part "B". First, mix Part A alone, mix Part B alone, then transfer to a separate clean, dry mixing container. Proportion the amounts carefully and mix for 2 full minutes using a low-speed drill. Be sure to scrape the bottom and sides of the mixing vessel. Avoid whipping air into the mixture. Pot life at 77°F is only 15 minutes if left in container. By pouring out the epoxy onto the countertop, pot life is extended to approximately 35 minutes.

APPLICATION: Imperial Epoxy may be applied by roller, notched trowel, or squeegee. For best results, follow with a spiked roller to help pop air bubbles. A heat gun works well to eliminate stubborn air pockets. Be cautious; do not scorch the surface by applying heat gun too closely or overusing heat gun. If a second coat is necessary, lightly scuff the hardened surface with sandpaper, clean, and reapply.

SAFETY PRECAUTIONS: Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. Use only in well ventilated areas. Avoid contact with skin; wear protective gloves. Use respirators. Protect eyes and skin from direct contact.