DUR-A-FLEX
INNOVATION FROM THE FLOOR UP

APPLICATION INSTRUCTIONS

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POLY-CRETE KT DOUBLE BROADCAST FLOORING

IMPORTANT! Read these instructions carefully several days prior to starting your work. Seek answers to any questions you may have before you begin. DUR-A-FLEX, Inc. maintains a Technical Staff that will be glad to answer your questions and give you advice pertaining to your particular installation.

DESCRIPTION

POLY-CRETE KT is a 100% solids aromatic urethane system. The system is a pigmented, double broadcast and topcoat(s) with natural quartz aggreagate. POLY-CRETE KT cannot be applied as a smooth coating as this results in micro-foaming.

SURFACE PREPARATION

Substrate must be profiled, clean, dry, oil free, and sound. Be careful of condensing humidity (within 10 degrees of the dew point). Please refer to the master Surface Preparation Guide on our website for more information. Substrate must be blasted and primed with either DUR-A-GLAZE #4 "Damp Primer" or "Fast" and applied with a flat squeegee at 150 Sq Ft per gallon. Allow the primer to cure completely before continuing. **Surface must be dry.** Contamination by water from plumbing or perspiration will result in blistering.

MIXING AREA

Select a convenient mix area and protect the surface from spillage by covering with a layer of cardboard and/or sheet of plastic. Be generous with the amount of space you allocate for this function. The more comfortably your mixer works, the less likely you are to have a "mix error". Do not mix this product in direct sunlight or when temperatures exceed 85ºF. Exposure to high temperatures will greatly reduce the working time of this product. Make ready all necessary tools, mix and measure containers, etc. DO NOT MIX ANY MATERIAL UNTIL READY FOR IMMEDIATE USE. Once hardener, resin and sand are combined, it must be used immediately. Apply masking tape wherever the coating is intended to stop. To obtain neat, straight, chip resistant edges at termination points and/or drains, a "keyed edge" must be installed.

PRIMING

Priming is mandatory in order to prevent outgassing and blistering. Prime all surfaces with DUR-A-GLAZE #4 "Damp Primer" or "Fast "as soon as the surface has been prepared.

POLY-CRETE KT ACCELERATOR

POLY-CRETE KT accelerator can be used to achieve a faster cure time between 60°F – 80°F.

KT ACCELERATOR MIXING INFORMATION

Proper dosage of Poly-Crete KT Accelerator is 2 ounces per mixed gallon. A mixed batch consists of 3 quarts of KT Resin, 2 ounces of KT Accelerator and 1 quart of KT Hardener.

Important: Add 2 ounces of Accelerator to 3 quarts of Resin and mix with a slow speed (450 rpm) drill for 30 seconds. Add 1 quart of Hardener and continue to mix for 1 minute.

KT ACCELERATOR APPLICATION CHART

*Full chemical resistance is achieved in 7 days

KT ACCELERATOR LIMITATIONS

Air/substrate temperature	Working time	Recoat time	Return to service
60ºF	10 minutes	11 hours	24 hours*
70ºF	8 minutes	10 hours	24 hours*
80ºF	6 minutes	6 hours	24 hours*

a) Do not used if air/slab temperature is less than 60ºF or greater than 80ºF.
b) Do not used if the relative humidity of the air is greater than 75%.
c) Do not exceed recommended dosage.

QUALITY CONTROL

The color of POLY-CRETE KT resin may vary slightly from batch to batch. It is recommended that the lot number on the side of the resin pail be checked, if lot numbers are different; box together the different lot numbers to ensure a uniform color for topcoat applications.

B. Prime surface with appropriate primer and spread rate.

C. Measure out a 1/2-gallon hardener and a 1-½ gallon resin. When combining, be sure to add the hardener first. Add the resin and scrape out the container. Be careful to pour both hardener and resin into the center of the mixing pail. Mix the blended urethane with a slow speed power drill with a Jiffler mixing blade for 1 minute**. Always scrape the sides and bottom of the mixing bucket to assure thorough blending**.

D. Apply a "base coat" of blended Poly-Crete KT at approximately 100 Sq Ft per gallon with a 3/16" notched squeegee and back roll with a quality 18", 3/8"non-shed roller.

E. Broadcast Ottawa Flintshot aggregate. Wearing spiked shoes or golf shoes, walk on the wet floor holding a 2 gallon container and broadcast the aggregate until the floor appears dry (about 3/4 lb. per Sq Ft). Be sure to keep moving while throwing the aggregate UP into the air so it falls vertically onto the floor. Do not rush, as it may take 15 to 30 seconds for the aggregate to be absorbed. IMPORTANT: Do not "seed" the edge that will be joining the next section. Be sure to leave "WET EDGE" (a 24" strip "unseeded" to permit overlapping when proceeding onto next section). Do not walk on the aggregate with spiked shoes. Be sure to keep any impurities out of the sand such as broom bristles, debris, etc. Allow to cure.

F Sweep off the excess aggregate using a stiff, clean, dry broom with synthetic bristles.

G. Repeat step C (mix). Apply blended Poly-Crete KT at approximately 100 Sq Ft per gallon with a 12" flat window squeegee (described in Topcoat Instructions) and back roll with a quality non-shed roller. Repeat step E (broadcast) again for 1/8" thickness, twice for a 3/16" thickness.

H. Sweep off the excess aggregate again. Scrape the floor with a trowel. Sweep or vacuum the floor again.

TOPCOAT INSTRUCTIONS

Measure out a 1/2-gallon hardener and 1 ½ gallons of resin. Follow the same pouring and mixing procedures as described above. Mix for 2 minutes. Apply the topcoat with a 12" flat squeegee. Move squeegee in a continuous semi-circular motion from left to right to left. Steady pressure on squeegee is necessary to obtain a uniform appearance. Do not advance squeegee too rapidly, each semi-circular swing should advance approximately 4 inches. It takes practice to reverse direction of the squeegee movement at the end of each left to right to left stroke. Remove all puddles and ridges before they are out of reach. Start movement of squeegee in a dry area, move onto wet glaze and continue to move squeegee until it reaches a dry edge. Backroll with a quality 18", 3/8"non-shed roller immediately.

CURE @ 70°F (without Accelerator)

Recoat	12 hours
Return to Service	24 hours
Full Chemical Resistance	7 days

Acceptable temperature range for POLY-CRETE KT is 60 - 85°F. Pot life is 15 minutes at 70 F.

CAUTION

Workers should wear protective clothing consisting of splash-proof goggles, impermeable gloves and, where exposure limits are exceeded, organic vapor respirators. Adequate cross ventilation should be provided. Clean trowels with DUR-A-FLEX TROWEL-EEZE only. **Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Any individuals sensitive to isocyanates should not install this product or be exposed to hardener vapors. Use only as directed. KEEP OUT OF REACH OF CHILDREN.**

Before using any DUR-A-FLEX, Inc. product, be sure the Material Safety Data Sheet is read and understood.