

K A U F M A N

PRODUCT
INFORMATION

KAUFMAN
PRODUCTS
INC.

3811 CURTIS
AVENUE

BALTIMORE,
MARYLAND
21226-1131

410-354-8600
800-637-6372
www.kaufman
products.net

Recommended Field Procedures For SureFlow 040

SureFlow 040 is intended to be used at an average depth of not less than 1/8" over the highest point of the floor and can be featheredged to match elevations. The product is intended for interior applications over dry substrates only. It is not intended for use in "wet" areas, or in areas exposed to intermittent or permanent substrate moisture. These conditions may harm the performance of the underlayment and floor covering system. SureFlow 040 is not a vapor barrier and will allow free passage of moisture through it. Be sure to follow the directions of the flooring manufacturer regarding maximum allowable moisture content and test the substrate before installing SureFlow 040.

Concrete Floor Preparation

1. Follow all ACI and ICRI guidelines for proper surface preparation
2. The concrete should be at least 28 days old or substantially cured to the design strength. Remove all dust, dirt, grease, gypsum, latex patches, asphalt, coal tar, lightweight insulating concrete and other foreign matter.
3. The concrete surface must be solid, thoroughly clean, free of oil, wax, grease, curing and/or sealing compounds, or any other product which may act as a bond breaker.
4. On hard troweled or burnished concrete, a minimum Concrete Surface Profile (CSP) of 3 must be achieved. Vacuum all dust off the surface. Do not use dusting compounds.
5. Fill any deep holes with SureGrout bonded by SurePoxy HM and allow it to cure for several days prior to SureFlow 040 applications.
6. Repair all non-moving cracks in the substrate using either SurePoxy HMLV or SurePoxy HMSLV. Cracks that exhibit movement should be left open and maintained through the topping or repaired in such manner to stop the movement. Do not fill control, expansion, or other types of joints with SureFlow 040.
7. Overwatered, frozen, or otherwise weak or contaminated concrete surfaces must be mechanically cleaned to a sound solid surface by shotblasting, scarifying or similar methods.
8. Hydrostatic pressure, plumbing leaks, flood factors, and other sources of water intrusion must be corrected prior to application.

Priming

1. Indoor concrete surfaces must be coated with the proper bonding agent. In most instances, SureWeld is acceptable and will work to control loss of mixing water, serve as a bonding agent, and prevent air from rising and into the product.
2. Coat properly prepared surfaces with SureWeld, diluted 1:1 with potable water. Apply this mixture uniformly and evenly at 400 ft²/gal. apply with soft, nylon push broom with exploded tips. Do not use paint roller, mops, or spray equipment. Do not leave any bare spots. Brush off puddles and excess primer. Allow to dry to the touch, approximately 2-3 hours before proceeding, maximum of 7 days.
3. Apply a second coat of un-diluted SureWeld at a coverage rate of 200 ft²/gallon. Brush off puddles and excess primer. Allow to dry to the touch, approximately 2-3 hours, maximum of 7 days.

4. Extremely absorbent concrete may require two or more applications of SureWeld to avoid the formation of bubbles and pinholes in SureFlow 040. In such cases, make an initial application of SureWeld diluted 3:1 with clean water and apply at 400 ft²/gal. After application, let SureWeld dry thoroughly (1-3 hours) and then install a second application of SureWeld diluted 1:1 with clean water at the same coverage rate. Apply the second coat perpendicular to the application direction of the first coat. A third coat of neat SureWeld should then be applied at 200 ft²/gallon and allowed to dry to the touch, approximately 2-3 hours prior to placement of SureFlow 040.
5. Visual Inspection: The surface of the concrete should be uniformly blue in color, which means that enough SureWeld is on the surface of the concrete to provide an adequate glue line.
6. For best adhesion, use SurePoxy HM neat instead of SureWeld. Apply according to directions at a coverage rate of 80 ft²/gal. SurePoxy HM will form a vapor barrier, and therefore should not be used in areas where hydrostatic pressure could be an issue.

Manual Installation

1. SureFlow 040 is mixed in 2-4 bag batches at one time. For each bag, use 5.5-6.25 quarts of water and mix for 2-3 minutes.
2. Put 5.5 quarts of water in the mixing container first, then add each bag while mixing at full speed with a 1/2" heavy-duty drill (650 rpm maximum) with a paddle blade. Adjust mix by adding additional water until desired consistency is achieved.
3. Do not over-water. A yellowish foam while mixing indicates over-watering.
4. Keep the blade below the surface to reduce air entrapment.
5. After mixing, use within its open time. Pour material onto the floor quickly and continuously. Notched or squeegee spreaders are beneficial.
6. For installations from 1/2" to 1" thick, add up to 25 lbs. 1/8" x 1/4" pea gravel per bag of SureFlow 040. However, this addition will reduce the self-leveling characteristics and may make application of a smoothing coat necessary. Consider the use of SureFlow 042 in those instances as it is designed for use from 1/4" to 2" deep without the addition of aggregate and is therefore extremely flowable.
7. Wear baseball or soccer shoes with non-metallic cleats to avoid leaving marks in the mixture.

Pumping Installation

1. SureFlow 040 can also be installed by pumping. Do not overwater. Check the consistency of the product on the floor to insure uniform distribution of the ingredients at both the top surface and bottom of the pour. Conditions during the installation such as variations in water, powder, substrate, and ambient temperature, require that the water setting be adjusted in the pumps during installation to avoid over-watering.
2. SureFlow 040 has a flow time of 10-12 minutes at 70° F. Pump the liquid mixture on the floor and immediately smooth the material with a smoother

Temperature

1. The recommended application temperature is 50-75°F. Do not use if air or surface temperatures are below 50° F. Temperatures below 50° F start to retard self-leveling properties.
2. If temperatures of air or substrate are above 75°F, the product will have less flow and meld time. This will make it more difficult to flow each pour together. In general, perform the work early in the day, when it is cooler, chill the mix water, use ice in a drum of water to chill your mix water. In the case of a pump installation of a self-leveling product, sections of coiled garden hose packed in a drum of ice will chill the water on its way to the pump and allow for longer working time. If the self-leveling material starts to set before you can properly smooth it, do not attempt to go back and try to touch up. Allow this rough area to dry thoroughly, re-prime the next day, and re-install when conditions are more favorable.
3. Use the right tools including a minimum 650 rpm, ½" heavy-duty drill. Working at warmer temperatures means that you will need to work quicker and in smaller pours. Having the right tools will maximize your installation efficiency.

Wood Floor Application Notes

SureFlow 040 may be used to level wood flooring, however the following surface preparation is essential:

1. Wood floors must be solid hardwood, securely fastened to prevent a rigid base, and a minimum of ¾" thick. It is the express responsibility of the contractor to make certain that the floor is adequately prepared.
2. The wood must be free of deleterious materials, such as wax, grease, dust, or other contaminants.
3. All wood floors will require the use of SureWeld, and it is recommended that a minimum of two coats be applied. Allow the first coat to dry prior to application of the second coat.
4. Install galvanized, expanded metal lath mesh, stapling every 6", once the second coat of SureWeld is applied. Overlap adjacent pieces of lath mesh by 1".

Precautions

1. This is a cementitious product, so follow normal concrete practices. This product is designed as an underlayment material for interior surfaces only. Cover with carpeting, tile, etc.
2. Existing expansion joints should be maintained and reproduced in the SureFlow 040 topping.
3. Test each job to determine the suitability of the system for its intended use and to be sure that the technique for application is understood.
4. Do not use in areas exposed to permanent or intermittent substrate moisture, as this may reduce the performance of the product.
5. This product is not a vapor barrier and will allow for passage of moisture.
6. Handle and dispose of asbestos, or any other hazardous materials, in accordance with prevailing regulations.
7. Read the complete Safety Data Sheet before using.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors, and their salespeople have no authority to change the printed recommendations concerning the use of our products.