



Hybrid Coating Technologies

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 p. +1. (650)491-3449; f. + 1(650)755-3362 Email: info@hybridcoatingtech.com

Green Polyurethane™ Indoor Floor Coating

FLI4W-FC—Grey-V.1 (Version 1: Feb. 4.16) &
 FLI4W-FC—Clear-V.2 (Version 2: Sep. 09.16)

Application Instructions

FLI4W-FC – Fast Curing floor coating is designed for indoor application.

FLI4W-FC— Grey-V.1 Composition	A two-component nonisocyanate epoxy-urethane fast cure compound. Ratio part A & part B – 100 A : 22 B <i>by weight</i> 100 A : 28 B <i>by volume</i>
FLI4W-FC— Clear-V.2 Composition	A two-component nonisocyanate epoxy-urethane fast cure compound. Ratio part A & part B – 100 A : 40 B <i>by weight</i> 100 A : 48 B <i>by volume</i>
Mixing	<p>Pre-condition: The FLI4W-FC product must rest at + 50-77 °F (+ 10-25 °C) for a minimum 24 hours before using. Once ready to use, thoroughly pre-mix component A and B separately before use in order to disperse pigmentation (and some modifiers) evenly into solution (not required for natural color material). Pre-mix containers with a Jiffy mixer (see Figure 1) for a minimum of 3 minutes until a homogeneous mix with no streaks is achieved. Recommended speed of stirrer is 300-400 rounds per minute. In the case of big volume containers (drums or pails), accurately measure required volume of the components A and B in separate, clean, graduated, plastic containers.</p> <p>Keep mix batch sizes no more than 2 gallons or less to allow for adequate time to apply the mixed product within the pot life of the material (<u>Pot life ~10min at 25C</u>).</p> <p>FLI4W-FC may be packaged into small containers. Therefore component B should be placed directly into container A. Mix the two components together with a Jiffy mixer for 2 minutes. Recommended speed of stirrer is 300-400 rounds per minute. Keep mixing blade submerged to avoid bubbles and pay special attention to the corners. After mixing, immediately pour the entire bucket of mixed material on the floor and begin application.</p>
Surface Preparation	<p>Surfaces must be properly prepared, clean and sound, prior to application of FLI4W-FC. Prepare surfaces by mechanical means such as sandblasting, shot blasting, grinding, etc. Remove any dirt, dust, oil, grease, laitance, rust, scale, paint, curing compounds, acids, chemicals or any other contaminants. Remove oil and grease with a degreaser.</p> <p>Old Concrete: Apply a thin prime coat of conventional primer used for epoxy</p>



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	<p>or polyurethane systems. The thickness of the primer layer should be sufficient to seal all the pores and cracks. To fill voids and other physical imperfections of the substrate, avoid pin holing in order to ensure a smooth surface coating.</p> <p>New Concrete: Allow new concrete to cure for a minimum of 30 days, prior to application of FLI4W-FC Apply a thin prime coat of conventional primer used for epoxy or polyurethane systems to reduce out-gassing.</p>
<p>Application Methods</p>	<p>Pour mixed material on to the floor immediately after mixing and create needed thickness using a notched squeegee. Back roll to remove any squeegee marks and achieve a smooth finish. If required, apply top coat within 24 hours of base coat application. To ensure a uniform finish, continue to apply product along the edge of a recently coated area where the edge is still wet (Applying new product to a dry edge may leave a noticeable line).</p> <p>Examples of recommended application tools are included below for your convenience (Figure 2).</p> <p>Contact the manufacturer for further application guidelines.</p>
<p>Repairs and Maintenance</p>	<p>Small repairs to cuts in the coating can be made by brushing on FLI4W-FC after scuffing the damaged area with a sander. Re-applying FLI4W-FC after 24 hours of initial application generally requires the use of sanding to achieve optimum adhesion.</p>
<p>Clean-up and Disposal</p>	<p>Clean skin with soap and water. Immediately clean spillages, equipment and tools with warm water and soap (trisodium phosphate may be used) or with a solvent (e.g. ethanol or methyl ethyl ketone) whilst the product is still wet. Cured product can only be removed mechanically. Cured product may be disposed of without restriction. Un-cured hardener and resin portions should be mixed together and disposed of in a normal manner.</p>
<p>Storage, Shipping and Handling</p>	<p>Keep in a well-ventilated place in tightly sealed containers. Protect from frost. Keep away from heat, direct sunlight and acids. Store product in a dry location in factory sealed containers at 50 to 90°F (10-32°C). Minimum product shelf life is 6 months in factory-sealed containers.</p> <p>FLI4W-FC component A and cured materials are Class 55 and not regulated by US DOT shipping regulations. FLI4W-FC component B has US DOT Hazzard Class 8.</p> <p>Avoid contact with skin and eyes, inhalation of high concentration of vapors. Use only in well ventilated areas. When using do not eat, drink or smoke.</p>
<p>Safety</p>	<p>Refer to Material Safety Data Sheets.</p>



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Application temperature: FLI4W–FC–Grey-V.1 & FLI4W–FC–Clear-V.2	°F (°C)	+ 50-77 (+ 10-25)		
Pot life at temperature: FLI4W–FC–Grey-V.1 & FLI4W–FC–Clear-V.2	°F (°C) min	50 (10) 30	59 (18) 20	77 (25) 10
Curing time at temperature: FLI4W–FC–Grey-V.1	°F (°C)	50 (10)	59 (18)	77 (25)
• Dry-To-Touch Time	hours	8	5	3
• Light Traffic Time	hours	24	16	12
• Full Cure Time	days	10	6	4
Curing time at temperature: FLI4W–FC–Clear-V.2	°F (°C)	50 (10)	59 (18)	77 (25)
• Dry-To-Touch Time	hours	8	4	2
• Light Traffic Time	hours	24	16	12
• Full Cure Time	days	10	6	3

Note: At higher temperature time of hardening and pot life are reduced.

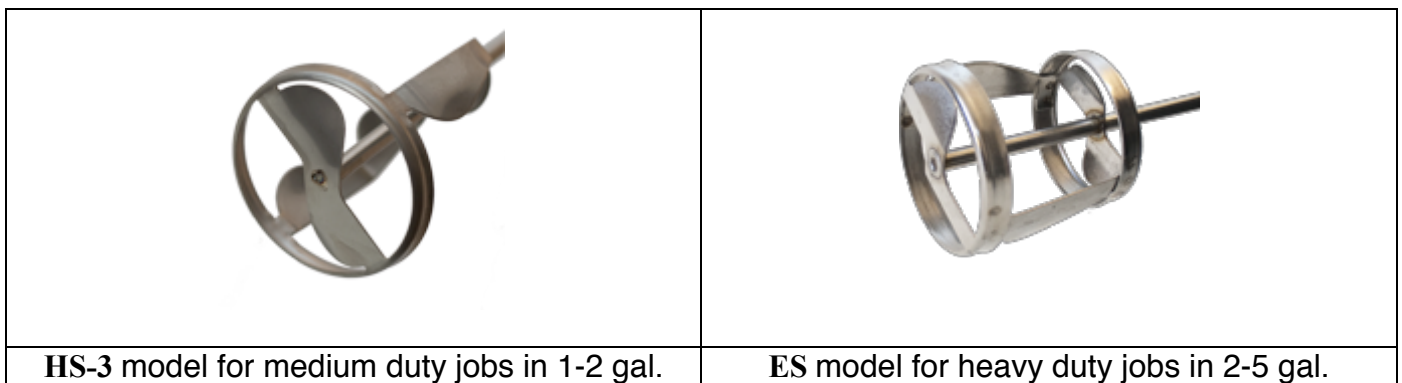


Figure 1. Examples of Jiffy mixers



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Nap Roller	Nap Roller

Figure 2. Examples of recommended instruments