

ColorFlake 1100™ Designer Coat

TDS
TECHNICAL DATA SHEET

by InduraFloor - DESIGNED TO BE UNIQUELY YOURS

ColorFlake 1100™ Designer Coat is an impermeable, two-component, modified epoxy coating that fortifies the moisture blocking properties of the HydroBlok™ primer whilst providing color fast design and flake options. ColorFlake 1100™ contains ZERO VOC. Its adhesion to substrates, with tensile adhesion strength exceeding 1,100 psi, is unsurpassed and because it is formulated to be applied after a single coat of primer, ColorFlake 1100™ is a unique and efficient part of a comprehensive system. ColorFlake 1100™ generous working time ensures ample time for broadcasting. For best UV-protection and a complete fine finished look, designed to last, we recommend starting with **HydroBlok™ Primer**, followed by **ColorFlake 1100™ Designer Coat** and finishing with our **Polyaspartic TopCoat**.

PRODUCT TECHNICAL DATA

Extraordinary Properties

- High Tensile Adhesion Strength exceeds 1,100 psi
- Designed to last. Guaranteed to stick and NOT delaminate
- Extensive inherent chemical resistance
- Extremely tough with hydrolytic stability and low permeability
- Compliant with EU 10/2011 and FDA 21 CFR 175.300

Unique Advantages

- Zero VOC
- low odor
- Directly apply over existing substrate with minimal preparation
- Cures in presence of moisture and water
- Tack-free and ready for topcoat in less than 2 hours
- Commercial return to service in less than 8 hours

Applications

- ◇ Over any existing concrete slab or other substrate that "weeps" moisture or vapors, has leaks or drafts
- ◇ As preventative treatment for new substrates to seal against moisture, vapor, leaks or drafts
- ◇ Developed for commercial, industrial and residential settings
- ◇ Effective subfloor treatment for uric acid

Area Coverage

A 2-gallon kit (1 gallon part A and 1 gallon part B) will cover 600 square feet on a flat even surface at 4-6 mils and 350 square feet on a coarse, uneven surface at 10-12 mils.

Packaging

ColorFlake 1100™ Designer Coat is available in the following units:

- ◇ 2-gallon kit (1-gal. part A and 1-gal. part B) in 3-gallon black pail – black lid
- ◇ 6-gallon kit (3-gallon part A and 3-gallon part B) in two pails: one 3-gallon black pail with white lid (part A) and one 3-gallon black pail with black lid (part B). Both 3-gallon pails come with pour spout in the lid

Processing Characteristics

- Tack free dry time: 120 minutes.
- Subsequent coat can be applied in 90 minutes.
- Recoat time: 24 hours. After 24 hours, you must perform the following procedure prior to recoating:
Light acetone wetting. Acetone wetting eliminates dust and "opens" the ColorFlake up to allow for maximum adhesion.
- ColorFlake 1100™ Designer Coat primary purpose is superior adhesion. Proper application will result in adhesion from 1,100 psi to at least 1,500 psi.
- Do not dilute.

| PHYSICAL PROPERTIES | TEST METHOD | RESULT | |
|--------------------------------------|-------------|----------------------------|----------------------------|
| | | TYPICAL PRODUCT | ColorFlake 1100™ |
| TENSILE ADHESION STRENGTH | ASTM D4541 | >410 psi | >1,100 psi |
| VAPOR PERMEANCE | ASTM E96 | 0.052 gr/h/ft ² | 0.011 gr/h/ft ² |
| TENSILE ELONGATION | ASTM D638 | 2,500 psi | 3,200 psi |
| WATER ABSORPTION | ASTM D570 | <0.1% | <0.09% |
| COMPRESSION STRENGTH | ASTM D695 | >10,000 psi | >18,000 psi |
| FLEXIBILITY 1/4" CYLINDRICAL MANDREL | ASTM D522 | PASS | PASS |
| IMPACT RESISTANCE | ASTM D2794 | >160 inch/lbs. | >320 inch/lbs. |
| SHORE D HARDNESS | ASTM D2240 | 80 | 89 |

| WORKING PROPERTIES | RESULT | |
|-------------------------|-----------------|------------------|
| | TYPICAL PRODUCT | ColorFlake 1100™ |
| MIX RATIO | 1:2 | 1:1 |
| WORKING TIME (POT LIFE) | 20 - 30 min | 50 - 60 min |
| RE-COAT TIME (MIN) | 12 hrs. | 50 min. |
| RE-COAT TIME (MAX) | 72 hrs. | 24 hrs. |
| FULL CURE | 7 days | 3 days |

Adhesion Performance and Penetration during Hydrostatic Pressure Testing

Loss of adhesion at 50 lbs. of applied hydrostatic pressure: 0 (zero)
Moisture wicking at 50psi

Working Temperature

Optimal application temperatures generally are between 60°F and 80°F (15.5°C and 27°C). This is for both ambient and surface temperatures. Outside this temperature range dry times will become exponentially longer. Applications outside this range, even below 41 °F, are achievable. Consult us for the specific application methods required for extreme temperatures.

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Product Technical Data Cont'd

Shelf Life and Storage

2 years unopened under good storage conditions. Store locked up and out of reach of children. Do not store in direct sunlight. Do not expose to freezing temperatures. Store in upright position. Store in accordance with local regulations. Store in original containers in a dry, cool and well-ventilated area between 60°F and 80°F. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright.

APPLICATION INSTRUCTIONS

Our product is unique and MUST be handled accordingly. Failure to follow the application instructions will void the warranty. Please consult InduraFloor directly for additional information or to discuss specific application questions.

- Clean surface.** Dry sweep and remove loose debris. Clean water wipe and wash down if required. Dry as needed. Use of leaf blower or floor blower fan is recommended. Follow with acetone wetting. Mist acetone on the substrate with solvent resistant sprayer. Acetone treatment is needed to maximize the performance of the product's adhesive capabilities, to ensure maximum adhesion and to guarantee it does not delaminate. Note: Acetone removes oils, contaminants and dust debris from both the surface as well as from within the pores of the substrate.
- Mix.** Thoroughly mix ColorFlake 1100™ Parts A and B each individually first. Then add color to part A prior to blending parts A and B. Blend Part A with Part B on 1:1 basis. Gently blend both parts, using a low RPM mixer, until the product is evenly colored. When using 9" rollers, a 5-gallon pail is compatible. Place the container on a pail dolly for mobility. *Paint Tray system or 18" roller can be used.*
- Induction Period.** After blending, let rest for at least 5 minutes before starting application. This period is called induction time. Failure to adhere to induction time period will void the warranty. Note: colder temperatures require a longer induction time.
- Application.** Apply ColorFlake 1100™ Designer Coat in two steps by dipping the roller into the bucket and removing excess material from the roller and then applying the primer onto the substrate. MUST use ¼" short nap roller (a "Wooster Brush R207-* Mohair Blend Roller Cover ¼" NAP" from Home Depot or equivalent). IF applying flakes, apply to second Designer Coat *only*. Broadcast flakes as you go. **WARNING - Do not pour the mixture out onto the substrate. Do not use a squeegee. Failure to adhere to these application instructions voids the warranty.** Use the roller to apply at a film thickness of 4 to 6 mils (when applying to a flat and even surface). When rolled out, ColorFlake 1100™ Designer Coat will have a translucent appearance.
- Dry Time.** Allow coat to become tack free before applying subsequent Designer Coat. The approximate tack-free time can be as little as 40 minutes if backrolled extensively, with an average of 90 minutes to 120 minutes but can take as long as 4-6 hours if applied heavier than 6 mils. at 75°F (24°C) and 50% relative humidity. IF applying TopCoat (not included in System), with or without nonSkidGrit slip resistant additive, apply 90-180 minutes after last Designer Coat.
- Clean up.** Use acetone for all tools and surfaces.



Disclaimer

This information is presented herein as believed by InduraFloor to be accurate at the time of preparation, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by InduraFloor are subject to InduraFloor's terms and conditions. InduraFloor makes no warranty, express or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by InduraFloor except that the product shall conform to InduraFloor's specifications.