

COLORFLEX

High Performance Elastomeric Waterproofing

Technical Data & Application Instructions

GLOBAL COATINGS
May, 2003

PRODUCT DESCRIPTION

ColorFlex is a fluid-applied, acrylic elastomer designed to waterproof exterior vertical surfaces. It possesses outstanding adhesion to a wide variety of substrates. **ColorFlex** is a permanently flexible "breathing" membrane, allowing moisture vapor from the substrate or building interior to escape through the coating while remaining impervious to mass water penetration from the exterior. **ColorFlex** cures in a two-stage mode. The exposed surface cross-links under ultraviolet light, while the sub-surface of the coating is protected from further cross-linking and retains a permanent elastomeric bond to the substrate. This allows the system to repel dirt, mildew and pollution without sacrificing flexibility. It contains no plasticizers, and will not harden or slump with age or changes in temperature.

BASIC USES

ColorFlex was specifically developed to waterproof vertical concrete and masonry building exteriors. It has the ability to uniformly cover the profile of textured substrates, forming a continuous membrane resistant to all forms of weather and airborne pollutants. **ColorFlex** effectively covers existing hairline cracks and repaired areas, and bridges hairline cracking caused by further building movement. It provides long term, aesthetically pleasing waterproofing on all types of concrete, masonry and *fiber-cement board*. **ColorFlex** is also effective over wood and hardboard substrates.

TYPICAL PROPERTIES	VALUE	METHOD
Solids by Weight	68% (±2)	ASTM D 2369
Solids by Volume	55%* (±2)	ASTM D 2697
Tensile Strength	150 psi (±25) @ 75°F 400 psi (±25) @ 0°F	ASTM D 412
Elongation	300% (±50) @ 75°F 400% (±50) @ 0°F	ASTM D 412
Hardness	60-70 Shore A	ASTM D 2240
Permeance	7.7 perms at 15 mils	ASTM E 96
Dry Time @ 75°F, 50%	1½ hrs @ 20 wet mils	ASTM D 1640 R.H.
Low & High Service Temperature Limits	-30°F to 200°F (-34°C to 93°C)	

SURFACE PREPARATION

Bare concrete, brick, stucco or masonry must be structurally sound, clean, dry, fully cured, and free from dust, curing agents or form release agents, efflorescence, scale or other foreign materials. On new poured-in-place concrete, use a non-staining form release agent which is either easily removed or is designed to be compatible with surface coatings. **ColorFlex** may be applied directly to clean, sound surfaces of fiber-cement board, concrete, brick or stucco, as well as galvanized metal, wood, siding and exterior wallboard. Concrete surfaces exhibiting high alkalinity should first be primed. All surfaces must be examined for any contamination. *Surfaces must be clean and free of any loose paint, dirt or efflorescence.*



Voice (888) 947-5870 Fax (512) 261-4441

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Our data and suggestions are based on information from laboratory and field testing which we believe to be reliable. Because methods of application vary with each situation, we cannot guarantee or accept any liability resulting from the use of our products. Avoid contact with eyes and skin. For additional information on **ACRACREAM** safety requirements, refer to OSHA guidelines and Material Data Safety Sheet.

All rusted steel surfaces must be primed with **Carrara METAL PRIMER**. Pre-coat all and partially rusted steel with a DTM **Metal Primer**.

PREVIOUSLY PAINTED: All dust, dirt, efflorescence and loosely adhering paint or coating shall be removed. Paints which show failure due to alkalis and moisture, which is recognizable by flaking, peeling and white deposits, must be completely removed. Chalky or oxidized surfaces must be thoroughly cleaned and power rinsed with clean, fresh water prior to application of **ColorFlex**. A sample application of **ColorFlex** should then be applied to test for adhesion. Any existing painted surfaces that are not tightly adhered must be removed by sandblasting, water blasting or other mechanical means.

Prepare concrete by grinding off any protrusions greater than 1/16th inch (unless permitted by Architect). Fill voids and joints with **Carrara FILL 'N' BUILD** or **AcraBond**. On new porous masonry (Block & Brick), and porous concrete, apply two coats of **COLORFLEX**, reducing first coat 20% with water.

APPLICATION

All surfaces must be clean and dry, and free of dirt, dust, oil, efflorescence, form or release agents, and other contaminants, which may interfere with optimum adhesion. Apply with brush, roller or airless spray. All surfaces should be sprayed with multi-directional spray passes to assure positive coverage. On applications requiring two or more coats, subsequent coats shall be applied in a direction perpendicular to the previous coat after it has dried. All surfaces must be uniformly coated and free from voids, pinholes or blisters. The theoretical thickness given for coverage is based on smooth, non-porous surfaces. Actual gallons required to achieve the minimum dry film thickness will depend upon the surface texture, method of application and weather conditions. It is the responsibility of the applicator to apply sufficient material to achieve the minimum dry thickness required. **ColorFlex** applied at the rate of one gallon per 100 sq. ft. (.4 l/m²) will theoretical yield 8.8 dry mils (224 dry microns). *When treating joints and seams of fiber-cement boards, apply one coat over the Carrara AcraCream base coat. Apply the second coat over the whole board including the previously coated joint or seams.* The minimum dry mil thickness over the joints and seams shall be 10-12 dry mils; 8-10 dry mils over the remaining board.

CLEAN-UP

Clean tools with water before material dries.

LIMITATIONS & PRECAUTIONS

ColorFlex shall not be applied when one or more of the following conditions exist:

1. If ambient and/or surface temperatures are below 45°F (7°C).
2. If relative humidity is in excess of 95%.
3. Threat of rain or freezing temperatures within (4) hours of application.
4. The dew point is less than 5°F (3°C) above the surface temperature.

COLORFLEX will freeze and become unusable at temperatures below 32° F (0° C). Do not ship or store without protection from freezing temperatures. Cool temperatures and high humidity will retard drying time. Do not apply in the late afternoon if heavy moisture condensation can appear during the night. Close container after each use.

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