

DECORFLEX® Coatings

Decorative Flexible Cementitious Protective & Waterproof Coating System

Product Description:

DECORFLEX® is a multi-layered, cementitious, acrylic emulsion based flexible decorative coating and waterproofing system. It is suitable for both interior and exterior applications, and can be applied over many different substrates to provide a decorative, protective coating. In combination with the system components, DECORFLEX® can be used to achieve a wide range of finishes, such as stenciling, engraving, knock down or splatter, to give the appearance of stone, stucco, tile, brick, etc. It can also be applied to architectural foam shapes such as columns and moldings. The design possibilities are fully open to the imagination and artistry of the installer. DECORFLEX® system components include a variety of cementitious coatings and mortars as well as reinforcement fabric, tapes, mesh and sealers.

System Components:

1. Primer (for non-porous substrates)
2. Skim coat (for protection from hydrostatic pressure)
3. Base coat
4. Top coat
5. Stains & color packs (optional)
6. Sealers

Typical Applications:

- Interior or exterior
- Horizontal, vertical, or overhead applications to concrete, cementitious overlays, masonry, brick, parging (render), CBU's (cement backer units), gypsum board (drywall), glass mat faced gypsum sheathing, steel, PVC, mastic asphalt (interior), roughened polystyrol, properly prepared existing cementitious terrazzo floors, ceramic, porcelain and quarry tiles.
- Balconies, plaza decks, stadiums, stairs
- Pool decks and other surrounding areas
- Retail spaces, restaurants, lobbies and other public areas
- Faux finishes for interior & exterior surfaces resembling travertine, granite, Venetian plaster, etc.
- Coating & decorating of architectural foam shapes
- Custom designs using stencils, engravings, pre-fabricated inlays, etc.

Advantages:

- Waterproofing & crack-isolation membrane
- Withstands pedestrian & vehicular traffic
- Solvent free (0% VOC) & Non-flammable
- Environmentally friendly, low odor
- No priming necessary in most cases
- Breathable (not a vapor barrier)
- Applied to moist/damp substrates
- Resists abrasion, mechanical wear & deicing salts
- Resists strong positive side hydrostatic pressure
- Compliant with Class A fire safety ratings
- UV, weather & freeze/thaw resistant
- Superior adhesion to many substrates
- Permanently flexible - Self curing
- Does not support the growth of mold & mildew

Substrate Preparation:

The substrate must be sound, clean, open pored, and free from voids, gaping cracks or ridges and open pored (like fine sand paper). Remove bond breakers, such as oil, grease, dirt, loose particles, remains of form oils, water repellents, rust or other coatings by high pressure waterblasting or wet or dry sandblasting, diamond cup grinding, etc. Pay particular attention to sufficiently roughen slab and wall substrates to ICRI CSP 3 to 5 profile. Use mechanical means to prevent DECORFLEX® from de-bonding!

Repair holes, defects, irregular surfaces, weak mortar joints, etc. with DECORFLEX®-MORTAR.

Round edges at vertical external joints. Close large open pores and joint recesses of CMU blocks and joint unevenness in brick walls with sand/cement mortar or DECORFLEX®-SK. "Sack" (close) bug holes with DECORFLEX®-SK. Pre-water substrate (excluding drywall or similar) with clean water to saturated surface dry (SSD) condition, with no standing surface water.

Seal dry, dusty or very absorptive surfaces (i.e. light weight concrete, drywall, gypsum, plywood) with DECORFLEX® liquid Component+B, diluted with water 1:4 to 1:5.

Alkali sensitive substrates:

Protect and seal alkali sensitive metal substrates such as copper, aluminum, galvanized or zinc treated metal first with a primer (i.e. KRYLON Primer, or equal) prior to applying (over-coating) DECORFLEX®.

NOTE: Do not apply DECORFLEX® at temperatures below 40°F (5°C) or to frozen substrates. Can be applied to 3 day old concrete at >86°F (>30°C) temperature and 5 day old at 60-70°F (15-21°C), or when concrete reaches minimum 2,000 psi. At high air temperatures, i.e. 86°F (30°C) and above, protect application from direct sun and wind to prevent premature surface drying and shrinkage cracks. Apply material in 2 (two) coats minimum. Use DECORFLEX®-SK as 1st coat where negative side pressure from ground or rain water can be expected. Do NOT directly apply DECORFLEX® over AQUAFIN®-IC or similar crystalline waterproofing products.

Application tools & cleaning:

DECORFLEX is applied using a combination of tools, including our custom tools as well as commercially available products. Clean tools and equipment with water immediately after use. Cured material can only be removed mechanically.

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Mixing Ratios & Coating Thicknesses of the DECORFLEX® System Components

Primer: DECORFLEX®-P

2-component product, containing Component-A (powder) and Component-B (acrylic latex liquid).

Prime substrate with DECORFLEX®-P as follows:

- Delivered in a pre-determined mix ratio, mix Component-A with Component-B completely. Do not mix partial units.
- Prime concrete slab surfaces which are non-porous or not profiled with 1 coat DECORFLEX®-P.
- At high temperatures outdoors (>75°F) add 8 - 12 oz (236 - 355 ml) water to liquid Component-B.
- Slab temperatures >95°F: cool substrate with soaker hoses prior to installation of primer.

Packaging: 5 gal pail/30 lb (13.6 kg)

Component-A (powder): 20 lb (9.1 kg)

Component-B (liquid): 1.1 gal/10 lb (4.1 L/4.5 kg)

Coating Thickness: min: ~20 mils (0.5 mm)
max: ~60 mils (1.6 mm)

Skim Coat: DECORFLEX®-SK

1-component product, simply mix with water. DECORFLEX®-SK is used as a skim coat for all applications where negative side hydrostatic pressure from ground or rain water can be expected.

Apply DECORFLEX®-SK as follows:

- Mixing ratio: 5 parts powder to 2 parts water
50 lb powder to 1.6 - 1.8 gal water
(22.7 kg to 6.1 - 6.9 L)
- Brush or trowel apply.
- DECORFLEX®-SK must be the first coat directly in contact with the substrate
- Slab temperatures >95°F: cool substrate with soaker hoses prior to installation

Packaging: 50 lb bag (22.7 kg)

Coating Thickness: min: ~20 mils (0.5 mm)
max: ~60 mils (1.6 mm)

Consumption: ~98 ft² @ 1/16" (9.1 m² @ 1.6 mm)

Base/finish coat: DECORFLEX®-HD (Heavy Duty)

DECORFLEX®-HD is a 2-component, highly abrasion resistant, load bearing waterproof "structural" coat.

DECORFLEX®-HD can be used as follows:

- Delivered in a pre-determined mix ratio, mix Component-A with Component-B completely. Do not mix partial units.

1. **Base Coat:** 1/8" - 1/4" (3 - 6 mm) thick base, top coated with DECORFLEX®-R, "F" and "UF" to achieve different textures. Application Areas: Floors and walls.

Note: for spalled or deteriorated floors prime substrate with DECORFLEX®-P (see above), prior to application of "HD".

2. **Finish Coat:** ~1/8" - 1/4" (3 - 6 mm) thick base and finish coat

Application Areas: Floors, walls, balconies, decks, stairs, etc.

Note: Prime substrates with DECORFLEX®-P (see above) when temperatures are +80°F prior to application of "HD"

Packaging: 82.5 lb Unit (37.5 kg):

Component-A (powder): 55 lb (25 kg)

Component-B (liquid): 3 gal/27.5 lb (13 L/12.5 kg)

Coating Thickness: min: ~1/8" [120 mils] (3.0 mm)
max: ~1/4" [240 mils] (6.4 mm) in one coat

Consumption: ~65 ft² @ 1/8" (6.0 m² @ 3.0 mm)
~30 ft² @ 1/4" (2.8 m² @ 6.4 mm)

Top coat: DECORFLEX®-R (Regular)

DECORFLEX®-R is a 2-component, highly abrasion resistant, load bearing waterproof topping or base coat. It can be pigmented or stained. It can be applied directly to the substrate or over cured and dry DECORFLEX®-HD to provide a smoother finish.

- Delivered in a pre-determined mix ratio, mix Component-A with Component-B completely. Do not mix partial units.

Packaging: 5 gal Pail/46 lb Unit (21 kg):

Component-A (powder): 33 lb (15 kg)

Component-B (liquid): 1.5 gal/13 lb (5.7 L/6 kg)

Coating Thickness: ~1/16" [60 mils] (1.6 mm) in one coat

Consumption: ~75 ft² @ 1/16" (6.9 m² @ 1.6 mm)

DECORFLEX®-F (Fine)

DECORFLEX®-F is a 2-component, abrasion resistant fine granular wear coat. It can be pigmented or stained. It is only applied over cured and dry DECORFLEX®-HD or DECORFLEX®-R.

- Delivered in a pre-determined mix ratio, mix component-A with component-B completely. Do not mix partial units.

Packaging: 5 gal pail/30 lb (13.6 kg)

Component-A (powder): 20 lb (9.1 kg)

Component-B (liquid): 1.1 gal/10 lb (4.1 L/4.5 kg)

Coating Thickness: max: ~20 - 30 mils per coat

Consumption: ~145 ft² @ 20 mils (13.6 m² @ 0.5 mm)

Top coat: DECORFLEX®-UF (Ultra Fine)

DECORFLEX®-UF is a 2-component, abrasion resistant very fine granular wear coat. It is only applied over cured and dry DECORFLEX®-HD, DECORFLEX®-R or DECORFLEX®-F.

It can be pigmented or stained.

- Delivered in a pre-determined mix ratio, mix Component-A with Component-B completely. Do not mix partial units.

Packaging: 5 gal pail/30 lb (13.6 kg)

Component-A (powder): 20 lb (9.1 kg)

Component-B (liquid): 1.1 gal/10 lb (5.7 L/4.5 kg)

Coating Thickness: max: ~10 - 20 mils per coat

Consumption: ~250 ft² @ 10 mils (23.2 m² @ 0.25 mm)

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Stains: DECORFLEX®-STAIN

100% acrylic semi-transparent stains. Available in 12 standard colors. Additionally DECORFLEX® can be integrally pigment using DECORFLEX®-CP color packs if desired.

Sealer: DECORFLEX®-SEALER-AC

DECORFLEX®-SEALER-AC is a heavy duty, UV resistant, clear acrylic sealer.

Packaging & Consumption: 5 gal pail (18.9 L)

- 1st coat: ~200 - 300 ft²/gal (18.5 - 27.8 m²/L)

- 2nd coat: ~350 - 450 ft²/gal (32.5 - 41.8 m²/L)

Sealer: DECORFLEX®-SEALER-PA

DECORFLEX®-SEALER-PA is a heavy duty, UV resistant, clear poly aspartic sealer.

Packaging: 5 gal pail

CURING:

Self curing under normal conditions. Do not use water. It may discolor pigmented applications during the fresh stage. However, provide suitable protection against extreme weather conditions while setting. In hot and very dry climates coating may become slightly tacky/sticky during the curing process. After 24 hrs after application mist coating with water to ensure complete hydration of material.

SHELF LIFE:

Approx. 6 months when stored in unopened packaging, kept dry and frost-free.

MISCELLANEOUS:

1. Do not expose the application to water during the setting time.
2. Expect prolonged setting and hardening time in rooms with high humidity, poorly ventilated areas and corners. The use of fans will accelerate the setting and curing time.
3. If application is exposed to intense sunlight work against movement of sun.
4. Cured DECORFLEX® is physiologically and ecologically safe.

LIMITATIONS:

Do not use as an adhesive to install ceramic tile or natural stone. Do not use in lieu of a roofing membrane over occupied space. Negative water pressure, if exposed to freezing, such as in above grade perimeter walls, can create spalling of the application or the exposed wall face.

MAINTENANCE:

Mechanically damaged DECORFLEX® can be easily repaired by thoroughly cleaning (sanding) the surface and reapplying a new coat of DECORFLEX®.

NOTE: Installer is responsible for proper product application. Site

visits by Aquafin personnel or representatives are solely for the purpose of making technical recommendations, not for providing supervision or quality control.

SAFETY:

Refer to MSDS. For commercial use only. This product contains sand (crystalline silica) and Portland cement and is highly alkaline (irritant) in contact with water. Prevent inhalation of dust. The use of rubber gloves and goggles during mixing and application is recommended. Avoid contact with eyes and skin. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water and seek medical advice. In case of handling large quantities, provide good ventilation if indoors.

KEEP OUT OF REACH OF CHILDREN

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