

# INDUSTRIAL

**SOLHYDROC**  
SOLUTIONS FOR CONCRETE



## RESTORATION & PROTECTION

Grouting Applications

Repair Mortars

Bonders

Primers

Protective Coatings & Linings

Protective Membranes



## OUR HISTORY

For over two decades now, Solhydroc's products for concrete have been used on construction jobsites across Canada. They have been used as unique solutions to the maintenance and repair of underground public transportation systems, many mining and metallurgy sites, wastewater facilities, for the repairs of highway & bridge infrastructure and for **heavy industrial applications** by concrete repair professionals.

Solhydroc has built its reputation on providing excellent materials backed by an outstanding on site technical support. Solhydroc specialists work jointly with applicators, engineers and architects to provide best practice and knowledge to all parties.

## INDUSTRIAL

Products designed for the repair & protection of concrete structures in:

- ▶ Pulp & paper, petrochemical and chemical plants
- ▶ Mining, metallurgy sites and metal refineries
- ▶ Hydroelectric, nuclear or other types of power generating stations
- ▶ Industrial wastewater treatment structures



## COMMERCIAL

Products designed for the repair and protection of concrete in various commercial applications:

- ▶ Commercial flooring & institutional flooring
- ▶ Parking structures
- ▶ Patios and balconies
- ▶ Ramps and walkways
- ▶ Building facades

## INFRASTRUCTURE

Products designed to repair and protect concrete infrastructure in:

- ▶ Bridges, Tunnels and Dams
- ▶ Parking garages and building envelopes
- ▶ Potable water and wastewater infrastructure
- ▶ Transportation industry (road, rail, airports & seaway)

## THE GOAL

SOLHYDROC INC. designs, manufactures and proposes products for the repair, rehabilitation and protection of concrete. The principal objective is to supply materials and methods to meet and surpass the needs of the company's clients and propose long term solutions in order to ensure a superior performance of concrete.



## THE PHILOSOPHY

First intended for the professionals of the construction industry, Solhydroc products are supported by an impeccable technical service, a dedicated sales force and a most innovative research and development department. We strive to assist and support the efforts of contractors, architects and engineers who use and recommend the solutions proposed by Solhydroc in the achievement and realization of each of their projects.

## PROTECTION

Once concrete has been properly repaired and has regained its original structural integrity, it is crucial to adequately protect its surface from the various deterioration factors to which it can be submitted, especially in the highly aggressive environments often associated with the industrial sector.

To do this effectively, SOLHYDROC proposes products and systems specifically designed for this crucial step.

SOLHYDROC's heat resistant mortars, polymer concretes and epoxy & vinyl ester based coatings, linings and membranes can offer high levels of protection even in the toughest and most aggressive environments.

## THE MISSION

To supply products and solutions for complex concrete deterioration problems. The Solhydroc team knows how to recognize the different sources of concrete problems and deterioration such as severe wear, a corrosive chemical environment and many other specific factors.

## RESTORATION

SOLHYDROC'S line of concretes, grouts & mortars have been successfully used in various industrial jobsites across Canada. Each has been designed with the objective of offering a permanent repair of concrete.

Whether repairing a floor, a column or a wall, or reconstructing ramps, gutters or base pads, the STRUCTUROC and SOLHYDCRETE lines of products have been specifically designed for any heavy industrial application, large or small.

**You can count on SOLHYDROC products and the team that stands behind them.**

We pride ourselves in being there before, during and after your project in order to help you find the correct solution and answer all of your questions.

# Grouting Applications

## SOLHYDFLOW GROUT

**Cementious Precision Non-Shrink Grout for Precision Alignment**



**For use in precision grouting applications where a fluid consistency non-shrink grout is required.**

SOLHYDFLOW GROUT is a ready to use, portland cement based, mineral aggregate grout intended for precision machinery, equipment and base plate grouting applications.

- ▶ Supporting compressors, pumps, motors, generators, paper making machinery baseplates and soleplates
- ▶ Columns and machinery baseplates
- ▶ Rails
- ▶ Structural and non-structural building members, wall panels, beams, columns, etc.
- ▶ Anchor bolts, bars, rods
- ▶ Reinforcing bars or rods

**Coverage:** A 22.7kg (50 lb) bag of SOLHYDFLOW GROUT mixed with 4.25L (4½ quarts) of potable water will yield 12L (0.43 pi³) of grout mixed at a 25 second flow on the cone @ 21°C (70°F) [ASTM C-939-87]. For applications where thickness of grout will be greater than 50mm (2"), add up to 6.8kg (15 lb) of 10mm (3/8") washed, clean, dry stone per 22.7kg (50 lb) bag of SOLHYDFLOW GROUT.

**Packaging:** 22.7kg (50lbs) bags or plastic pails

## SOLHYDGROUT EPOXY HS

**Epoxy based precision grout for total and uniform support under heavy equipment**



**Use for precision grouting applications under heavy and/or vibrating plant equipment.**

SOLHYDGROUT EPOXY H.S. is an epoxy based precision grout offering superior physical properties designed to provide total and uniform support, precise alignment and vibration control under heavy equipment. SOLHYDGROUT EPOXY H.S. is a 100 % solids, three component grout which is easily mixed (dust free) and applied at the job site.

- ▶ Pulp and Paper machine sole plate
- ▶ Mining crushers
- ▶ Petrochemical and Gas industry pumps, compressors and other heavy equipment
- ▶ Blowers, mills, crane rails, etc.

**Coverage:** SOLHYDGROUT EPOXY H.S. is packaged in 28.3L unites (1 ft³) and will cover for thickness of 20mm (3/4") an area of 1.49m² (16ft²), and for 50mm (2") an area of 0.57m² (6ft²).

**Packaging:** 1 cu ft (28.3 L) prepackaged units which include Part A (Resin) - 6.9L, Part B (Hardener) - 2L, and Part C (Aggregate) - 50kg (2 x 25kg bags).

### STRUCTUROC H

**High Strength Rapid Setting Mortar for Horizontal Repairs**



**Repair of spalled and damaged concrete floors due to wear, abrasion, temperature and other damage factors.**

STRUCTUROC H is a rapid setting, high early strength repair material that requires only the addition of water to produce a fast, permanent repair for concrete. STRUCTUROC H is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC H is designed for horizontal repairs and can be placed at thicknesses ranging from 5mm up to 300mm in a single lift. This product can be extended with up to 50% of clean pea gravel to produce a rapid setting concrete.

- ▶ Repair of concrete walls
- ▶ Repair of bridge decks
- ▶ Industrial concrete floor repair
- ▶ Parking decks and ramps
- ▶ Repair of concrete bases

**Coverage:** Yields 12L when mixed with 2.3L of potable water that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a thickness of 10mm. This product when extended with 50% (10mm) pea gravel will yield 16 liters of volume.

**Packaging:** 22.7 kg (50 lb) polyethylene bags or plastic pails

### STRUCTUROC H ULTRA

**High Strength Rapid Setting Flowable Mortar for Horizontal Repairs**



**Repair of spalled and damaged concrete floors due to wear, abrasion, temperature and other damage factors.**

STRUCTUROC H ULTRA is a rapid setting, high early strength repair material that requires only the addition of water to produce a fast, permanent repair for concrete. STRUCTUROC H ULTRA is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC H ULTRA is designed for horizontal repairs and can be placed at thicknesses ranging from 3mm up to 100mm in a single lift. This product can be extended with up to 50% of clean pea gravel to produce a rapid setting concrete.

- ▶ Repair of concrete walls
- ▶ Repair of bridge decks
- ▶ Industrial concrete floor repair
- ▶ Parking decks and ramps
- ▶ Repair of concrete bases
- ▶ Repair of balconies

**Coverage:** Yields 12L when mixed with 2.3L of potable water that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a thickness of 10mm. This product when extended with 50% (10mm) pea gravel will yield 16 liters of volume.

**Packaging:** 22.7 kg (50 lb) polyethylene bags or plastic pails

## Repair Mortars

### STRUCTUROC V

**High Strength Rapid Setting  
Mortar for Vertical Repairs**



**All vertical or overhead repairs.**

STRUCTUROC-V is a cement based, one component, polymer modified, high strength, shrinkage compensated rapid setting repair mortar. It is designed for vertical and overhead concrete repairs to produce superior bond, tensile and flexural strength. STRUCTUROC V is able to be placed and sculpted to proper shape in one operation for thicknesses from 5mm (1/4") to 50mm (2").

- ▶ Bridges
- ▶ Tunnels
- ▶ Multi-Level parking structures
- ▶ Parapets
- ▶ Clarifiers
- ▶ Viaducts
- ▶ Reservoirs
- ▶ Dams
- ▶ Column and Beam Repairs

**Coverage:** A 22.7kg bag of STRUCTUROC V will yield approximately 12.7L and cover 1.95m<sup>2</sup> at a 5mm thickness.

**Packaging:** 22.7kg (50lbs) bags

### STRUCTUROC V PLUS

**Rapid Setting Mortar  
for Vertical Repairs**



**All vertical or overhead repairs.**

STRUCTUROC V PLUS is a cement based, two components, polymer modified, shrinkage compensated rapid setting repair mortar. Designed for vertical and overhead concrete repairs. STRUCTUROC V PLUS is able to be easily placed and sculpted to proper shape at thicknesses from 5mm (1/4") and exceeding to 50mm (2") in one single operation.

- ▶ Bridges, viaducts and tunnels
- ▶ Parapets, columns and beams repairs
- ▶ Two (2) components
- ▶ Easily placed
- ▶ Can be overcoated within 12 hours after placement

**Coverage:** Covers approximately 2.0m<sup>2</sup> (22ft<sup>2</sup>) per bag at a thickness of 6mm (1/4") when mixed with 3.8L (0.87 to 1 US gal) of V PLUS LIQUID POLYMER.

**Packaging:** 22.7kg (50lbs) bag of STRUCTUROC V PLUS and 3.8L (1 US gal) bottle of V PLUS LIQUID POLYMER

### SOLHYDCRETE A.N.

**Self-consolidating concrete that offers high early strength and prolonged working time for fast, permanent repair for concrete**



**Deep permanent concrete repairs requiring a fast turn around.**

SOLHYDCRETE A.N. is a self-consolidating concrete that offers high early strength, prolonged working time and improved placeability to produce a fast, permanent repair for concrete. SOLHYDCRETE A.N. is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. SOLHYDCRETE A.N. can be placed at thicknesses ranging from 40mm to 400mm in a single lift.

- ▶ Repair of concrete pads and supports
- ▶ Rebuilding concrete pump bases
- ▶ Repair of concrete bridge structures
- ▶ Fast repair of concrete walls, columns and bases in industrial applications

**Coverage:** SOLHYDCRETE A.N. is packaged in 25kg (55lbs) bags. Yields 12.5 L when mixed with 2.62L of potable water (10.48% by weight of dry mix) that will cover approx. 1m<sup>2</sup> (11 ft<sup>2</sup>) at a 10mm thickness.

**Packaging:** 25kg (55lbs) bags

### SOLHYDFLOW INDUSTRIAL

**Heavy Duty Self-leveling Wear Resistant Topping**



**Specially designed fast setting self-leveling wear surface for the repair and the levelling of concrete plant floors that are uneven rough damaged, unfinished, frozen or rained on concrete slabs. Specially formulated for heavy duty industrial equipment traffic on concrete floors.**

SOLHYDFLOW INDUSTRIAL is a heavy duty self-leveling wear resistant topping that provides a flat, smooth and very durable surface with minimum effort, installation time and cost. It is a single component, high strength, non-shrink, regulated setting wear surface using a polymer modified binder system to level MC and smooth floors. SOLHYDFLOW INDUSTRIAL can be poured or pumped (no trowel required) in one single step to thicknesses from 3mm (1/8") to 20mm MC (3/4"). SOLHYDFLOW INDUSTRIAL will accept foot traffic within 4 hours and heavy industrial traffic 24 hours after application.

- ▶ Plants floors
- ▶ Warehouse and distribution floors
- ▶ Rain damaged floors
- ▶ Floors damaged by wear
- ▶ Parking garage floors (interior)
- ▶ Correctional institutions
- ▶ Showrooms (Heavy equipment vehicle dealers)

**Coverage:** A 22.7kg SOLHYDFLOW bag mixed with MC INDUSTRIAL 3.8L of clean potable water will cover approximately 2.0m<sup>2</sup>. When applied on concrete at a 6mm thickness. For applications greater than 25mm thickness, add up to 6.8kg of clean dry 10mm special granite stone per MC 22.7kg bag of SOLHYDFLOW INDUSTRIAL .

**Packaging:** 22.7kg bags

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# Heat Resistant Repair Mortars

## STRUCTUROC HT

**High Strength and Temperature Resistant Rapid Setting Mortar for Horizontal Repairs**



**Repair of spalled or damaged concrete floors due to high temperature exposure, abrasion, wear and other damage factors.**

STRUCTUROC HT is fast setting, high strength, high temperature resistant repair mortar that produces a rapid and permanent repair for concrete. STRUCTUROC HT is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC HT is designed for horizontal repairs. STRUCTUROC HT can be placed at thicknesses ranging from 14mm to 300mm in one single operation. Applications exceeding 50mm in thickness require the addition of aggregate. Consult your local SOLHYDROC representative for the type and quantity of aggregate to be added.

- ▶ Concrete repairs located near industrial furnaces or other areas exposed to heat (up to 550°C / 1000°F)
- ▶ Fast repair and return to service of damaged industrial concrete floors
- ▶ Repair and creation of concrete slopes, drains and trenches
- ▶ Repair of concrete walls, bases, pads and columns

**Coverage:** Yields 12L (0.42 ft<sup>3</sup>) of material when mixed with 2.5L of potable water, which will cover approx. 0.5m<sup>2</sup> (5.5 ft<sup>2</sup>) when applied at a thickness of 25mm (1").

**Packaging:** 22.7kg (50lbs) bags

## STRUCTUROC THT

**High Strength, High Temperature Resistant, Rapid Setting Mortar for Horizontal Repairs**



**Repair of spalled or damaged concrete floors due to high temperature exposure, abrasion, wear and other damage factors.**

STRUCTUROC THT is fast setting, high strength, high temperature resistant repair mortar that produces a rapid and permanent repair for concrete. STRUCTUROC THT is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. STRUCTUROC THT is designed for horizontal repairs. It can be placed at thicknesses ranging from 50mm to 150mm in one single operation.

- ▶ Concrete repairs located near industrial furnaces or other areas exposed to high heat (up to 700°C / 1300°F)
- ▶ Fast repair and return to service of damaged industrial concrete floors
- ▶ Repair and creation of concrete slopes, drains and trenches
- ▶ Repair of concrete walls, bases, pads and columns

**Coverage:** Yields 12L (0.42 ft<sup>3</sup>) of material when mixed with 2.5L of potable water, which will cover approx. 0.255m<sup>2</sup> (2.75 ft<sup>2</sup>) when applied at a thickness of 50mm (2").

**Packaging:** 22.7kg (50lbs) bag

## Corrosion Resistant Repair Mortars

### STRUCTUROC HCR-F

Epoxy-Based Polymer Concrete for Harsh Environments



**Permanent concrete repair material for areas exposed to harsh chemical environments.**

STRUCTUROC HCR-F is a 100% solids chemically resistant epoxy based polymer concrete that is designed for the permanent repair of concrete in areas exposed to harsh chemical environments. STRUCTUROC HCR-F can be applied to a thickness of 20mm (3/4") to more than 750mm (24").

- ▶ Metal refinery floors and structures
- ▶ Pulp & Paper pits, tanks and digesters
- ▶ Chemical processing reservoirs, sumps and pits
- ▶ Pump pads, grade corrections, structural repairs and precast for trenches, sumps, and process vessels

**Coverage:** For estimating purposes a one cubic foot unit will cover approximately 1.12 m<sup>2</sup> (12 ft<sup>2</sup>) at a thickness of 25mm (1").

**Packaging:** Packaged in 1 ft<sup>3</sup> units. Each unit consists of the following pre-measured components: Part A (Resin) - 3.67L (1 gal), Part B (Hardener) - 1.5L (2 quarts), and Part C (Aggregate) - 60kg (3 x 20kg bags).

### STRUCTUROC HCR-F(n)

Novolac based epoxy polymer concrete for very harsh environments



**Permanent concrete repair material for areas exposed to very harsh chemical environments including high concentrations of acid and caustic solutions.**

STRUCTUROC HCR-F(n) is a 100% solids chemically resistant Novolac based epoxy polymer concrete that is designed for the permanent repair of concrete in areas exposed to very harsh chemical environments. STRUCTUROC HCR-F(n) can be applied to a thickness of 20mm (3/4") to more than 750mm (24").

- ▶ Metal refinery floors and structures
- ▶ Pulp & Paper pits, tanks and digesters
- ▶ Chemical processing reservoirs, sumps and pits
- ▶ Pump pads, grade corrections, structural repairs and precast for trenches, sumps, and process vessels

**Coverage:** For estimating purposes, a one cubic foot unit will cover approximately 1.12 m<sup>2</sup> (12 ft<sup>2</sup>) at a thickness of 25mm (1").

**Packaging:** Packaged in 1 ft<sup>3</sup> units. Each unit consists of the following pre-measured components: Part A (Resin) - 5.8L (1.5 gal), Part B (Hardener) - 1.6L (2 quarts), and Part C (Aggregate) - 60kg (3 x 20kg bags).

### SOLHYDBOND THIXO

**Thixotropic Two-Component Epoxy System for Vertical and Overhead Applications**



**Used as a bonding agent or patching for overhead and vertical surfaces.**

SOLHYDBOND THIXO is a thixotropic two-component epoxy system for all overhead and vertical applications.

- ▶ Leveling and repairing concrete surfaces prior to the installation of SOLHYDLINING, SOLHYDGLAZE or SOLHYDCOAT systems
- ▶ As a patching material when extended with silica sand
- ▶ Setting horizontal dowels in concrete
- ▶ Setting ports and plastic tees for crack injection

**Coverage:** The yield of this material will depend on thickness installed and application.

**Packaging:** Packaged in pre-measured 7.56L units.

### SOLHYDBOND E

**Sprayable Two Component Epoxy Material for Bonding Fresh to Cured Concrete**



**Permanently bonding new concrete or repair materials to existing concrete surfaces.**

SOLHYDBOND E is a sprayable, 100% solids, two component epoxy material for bonding fresh concrete to cured concrete.

- ▶ Permanently bonding new concrete to cured concrete
- ▶ Bonding Solhydroc repair materials to existing concrete substrates
- ▶ Protection of reinforcing bars from chloride ion attack

**Coverage:** Will cover approximately 2m<sup>2</sup> - 3m<sup>2</sup>/L (80 - 120 f<sup>2</sup>/gal) depending on the roughness of the substrate.

**Packaging:** Packaged in 4L (1 gal) units.

## SOLHYDCOAT PRIMER 100

100% Solids Moisture Tolerant Epoxy Primer



SOLHYDCOAT PRIMER 100 is used as an epoxy primer for epoxy and urethane coatings, epoxy linings, flexible epoxy membranes, epoxy troweled mortars, polymer concretes and cement based self leveling products.

SOLHYDCOAT PRIMER 100 is a 100% solids, moisture tolerant epoxy primer formulated for toughness and stress relieving properties. The combination of high tensile strength and tensile elongation provides for greater durability under impact and thermally-induced stresses.

- ▶ SOLHYDCOAT and SOLHYDGLAZE epoxy or urethane coatings
- ▶ SOLHYDLINING monolithic epoxy lining systems
- ▶ SOLHYDFLEX flexible epoxy membrane systems
- ▶ SOLHYDTOP troweled mortar systems
- ▶ STRUCTUROC HCR-F polymer concrete systems
- ▶ As a saturated sand broadcast system to bond SOLHYDFLOW Industrial self leveling

**Coverage:** Coverage is 10 m<sup>2</sup>/L (400 f<sup>2</sup>/gal) at 4 mils DFT and WFT.

**Packaging:** Packaged in 11.4L (3 gal) and 56.7L (15 gal) units.

## SOLHYDCOAT PRIMER V.E.F.

Modified Vinyl Ester Based Primer and Binder Enhanced by an Elastomer Exhibiting Toughness and Good Chemical Resistance



SOLHYDCOAT PRIMER VEF is used as primer or binder for all Solhydroc vinyl ester based systems.

SOLHYDCOAT PRIMER VEF is a modified vinyl ester based primer and binder that exhibits the toughness and chemical resistance of an epoxy vinyl ester and is enhanced by an elastomer built in the backbone. Outstanding characteristics include superior adhesion to concrete and metal substrates, improved impact strength, better abrasion resistance and higher tensile strength.

- ▶ Primer where thermal stress is anticipated
- ▶ Primer and binder for physical stresses and impact applications
- ▶ Corrosion resistant flexible laminates
- ▶ As a primer for vinyl ester based SOLHYDCOAT, SOLHYDLINING, SOLHYDGLAZE and SOLHYDTOP systems.

**Coverage:** Coverage is 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal).

**Packaging:** Packaged in 3.8L (1 gal) or 18.9L (5 gal) units.

## Protective Linings & Coatings

### SOLHYDLINING 219

#### Fiber-Reinforced Novolac Resin-Based Epoxy Lining System for the Protection of Surfaces Against Aggressive Chemical Substances

SOLHYDLINING 219 is a fiber-reinforced Novolac resin based epoxy lining system designed to protect concrete, steel or masonry surfaces against aggressive chemical substances contained in trenches, sumps, basins and chests found in paper mills and other industrial plants. SOLHYDLINING 219 resists a wide variety of chemicals including bleaches, liquors, along with acid and alkaline solutions.

**Coverage:** Covers approximately 0.66 m<sup>2</sup> per liter (27 sq ft per gallon) at a thickness of 60 mils.

**Packaging:** Packaged in 3.8L (1 gal), 9.5L (2.5 gal) and 18.9L (5 gal) units.

#### Sprayed monolithic lining for the protection of new and existing structures.

- ▶ Pulp & Paper clarifiers, sumps and chests including tile lined chests
- ▶ Tanks, sumps, trenches and floors of metal refineries such as copper and zinc
- ▶ Tanks, sumps and floors of chemical processing plants

### SOLHYDLINING 441

#### Fiber-reinforced Vinyl Ester resin based lining system for protection of concrete, steel or masonry surfaces

SOLHYDLINING 441 is a fiber-reinforced Vinyl Ester resin based lining system designed to protect concrete, steel or masonry surfaces against aggressive chemical substances contained in trenches, sumps, basins and chests found in paper mills and other industrial plants. SOLHYDLINING 441 resists a wide variety of chemicals including bleaches, liquors, along with acid and alkaline solutions at elevated temperatures up to 121°C (250°F).

**Coverage:** Covers approximately 0.5 m<sup>2</sup> per liter (20 sq ft per gallon) when applied in 2 coats at a thickness of 40 mils wet per coat (WFT).

**Packaging:** Packaged in 3.8L (1 gal) and 9.5L (2.5 gal) units.

### SOLHYDGLAZE 229

#### Novolac Resin-Based Epoxy Coating to Protect Surfaces Against Aggressive Chemical Products

SOLHYDGLAZE 229 is a Novolac resin based epoxy coating system designed to protect concrete, steel or masonry surfaces against aggressive chemical substances contained in trenches, sumps, basins and chests found in paper mills and other industrial plants. SOLHYDGLAZE 229 resists a wide variety of chemicals including bleaches, liquors, along with acid and alkaline solutions.

**Coverage:** Covers approximately 4m<sup>2</sup> per liter (160sq ft per gallon) at a thickness of 10 mils.

**Packaging:** Packaged in 3.8L (1 gal), 11.4L (3 gal) and 18.9L (5 gal) units.

#### Used independently or as glossy topcoat for the SOLHYDLINING fiber-filled lining systems in order to protect new or existing structures.

- ▶ Pulp & Paper clarifiers, sumps and chests including tile lined chests protected with the SOLHYDLINING fiber filled system
- ▶ Tanks, sumps, trenches and floors of metal refineries such as copper and zinc
- ▶ Tanks, sumps and floors of chemical processing plants

### SOLHYDGLAZE 473

#### Vinyl Ester based coating system to protect concrete, steel or masonry

SOLHYDGLAZE 473 is a Vinyl Ester based coating system designed to protect concrete, steel or masonry surfaces against aggressive chemicals substances contained in trenches, sumps, basins and chests found in paper mills and other industrial plants. SOLHYDGLAZE 473 resist a wide variety of chemicals including bleaches, liquors, along with acid and alkaline solutions at elevated temperatures up to 121°C (250°F).

**Coverage:** Covers approximately 4 m<sup>2</sup> per liter (160sq ft per gallon) at a thickness of 10 mils.

**Packaging:** Packaged in 3.8L (1 gal) and 11.4L (3 gal) units.

### SOLHYDCOAT F.S.C.

**Solvent-Free Epoxy-Based Coating with High Abrasion Resistance and Good Chemical Resistance**



**Epoxy based resin system which is used as a smooth surface coating, textured coating or self leveling broadcast system.**

SOLHYDCOAT F.S.C. is a 100% solids epoxy with excellent all around application properties. It provides high abrasion resistance and good chemical resistance. With no solvent present in the formula it is V.O.C. compliant with an extremely low odor level during installation.

- ▶ Institutional buildings
- ▶ Pharmaceutical plant floors
- ▶ Food warehouse and plant floors
- ▶ Chemical plant floors
- ▶ Industrial and commercial floors

**Coverage:**

**Primer**

5m<sup>2</sup>/L (200 f<sup>2</sup>/gal)  
(approx. rate)

**Smooth Surface Coating**

Prime Coat: 5m<sup>2</sup>/L (200 f<sup>2</sup>/gal)  
Top Coat: 3.25m<sup>2</sup>/L (133 f<sup>2</sup>/gal)

**Textured Coating**

Prime Coat: 5m<sup>2</sup>/L (200 f<sup>2</sup>/gal)  
Top Coat: 3.25m<sup>2</sup>/L (133 f<sup>2</sup>/gal) of Solhycoat Thixo

**Self Leveling Broadcast System**

Prime Coat: 5m<sup>2</sup>/L (200 f<sup>2</sup>/gal)  
Base Coat: 1m<sup>2</sup>/L (40 f<sup>2</sup>/gal)  
Broadcast Silica Sand or selected broadcast material to saturation.  
Top Coat: 4m<sup>2</sup>/L (160 f<sup>2</sup>/gal)

**Packaging:** 56.7L (15 gal) units

### SOLHYDCOAT C.R.C.

**Novolac Resin-Based Epoxy Coating System to Protect Concrete, Steel or Masonry Surfaces Against Aggressive Chemical Substances**



**As a coating for the protection of concrete structures against harsh chemical environments.**

SOLHYDCOAT C.R.C. is a two component, 100 % solids Epoxy Novolac coating possessing excellent overall chemical resistance and outstanding acid resistance.

- ▶ Primary containment of aggressive chemicals
- ▶ Secondary containment of aggressive chemicals
- ▶ Industrial flooring subject to chemical attack

**Coverage:** Apply two coats at 4m<sup>2</sup>/L (160 ft<sup>2</sup>/gal) for a final coverage of 2m<sup>2</sup>/L (80 ft<sup>2</sup>/gal). For non-slip surface apply silica aggregate at approximately 2kg/m<sup>2</sup> (0.4 lbs/ft<sup>2</sup>) in the first coat while still wet. The second coat may require more material depending on the size of the aggregate broadcast.

**Packaging:** 56.7L (15 gal) units

## Protective Coatings

### SOLHYDCOAT V.E.

**Vinyl Ester Resin-Based Coating with Excellent Chemical Resistance**



**Used as a protective coating for concrete and steel in corrosive environments.**

SOLHYDCOAT V.E. is a coating system designed for use where chemical resistance is required. SOLHYDCOAT V.E. is a modified Vinyl Ester Resin which provides a hard, durable wearing surface with excellent chemical resistance.

- ▶ Institutional buildings
- ▶ Primary and secondary containment
- ▶ Plant floors
- ▶ Machine bases

**Coverage:** Coverage rate of SOLHYDCOAT V.E. is 4m<sup>2</sup>/L (160 ft<sup>2</sup>/gal) per coat.

**Packaging:** Available in 18.9L (5 gal) containers. Catalyst (MEKP) is packaged in separate containers of 3.8 L (1 gal) or 150ml (5 oz).

### SOLHYDCOAT V.E. PLUS

**Epoxy Novolac Vinyl Ester Resin-Based Laminate and Coating System with Excellent Chemical Resistance**



**Used as lining and coating system for primary and secondary containment of aggressive chemical solutions.**

SOLHYDCOAT V.E. PLUS is a formulated multifunctional Epoxy Novolac Based Vinyl Ester Resin. SOLHYDCOAT V.E. PLUS provides resistance to many aromatic and aliphatic solvents, organic and mineral acids and excellent resistance to thermal degradation. SOLHYDCOAT V.E. PLUS is provided as a clear laminating resin and in pigmented and filled coating grade.

- ▶ Pulp & Paper clarifiers, digesters, sumps and chests
- ▶ Mining & Metallurgy tanks, sumps, trenches and floors
- ▶ Petro Chemical tanks, dykes, trenches and floors
- ▶ Pharmaceutical secondary containment areas and floors where aggressive chemicals are used
- ▶ Food processing floors where aggressive cleaning chemicals are used

**Coverage:** Covers approximately 0.5 m<sup>2</sup> per liter (20 sq ft per gallon) when applied in 2 coats at a thickness of 40 mils wet per coat (WFT).

**Packaging:** Containers of 3.8 liters (1 gal) or 150ml (5 oz.)

### SOLHYDCOAT OIL GUARD

**Penetrating Two-Component Epoxy Coating Offering Good Chemical Resistance**



**Used for protection of new or existing concrete floors.**

SOLHYDCOAT OILGUARD is a penetrating two component epoxy coating that does not require a primer, dries very rapidly and offers good chemical resistance to products such as gasoline and oil.

- ▶ Service station floors
- ▶ Mechanical maintenance floors
- ▶ Tool Shops
- ▶ Interior parkade and ramps

**Coverage:** Typical rate of application over a normal concrete surface is two coats of 7m<sup>2</sup>/L (300 f<sup>2</sup>/gal) per coat. Actual coverage rate will vary with concrete porosity, moisture content and profile.

**Packaging:** 40L (10.5 gal) units

### SOLHYDFLEX CR

**Corrosion-Resistant, Elastomeric and Flexible 100% Solids Epoxy**



**Used as a flexible membrane where substrate cracking is evident and/or anticipated where chemical resistance is important.**

SOLHYDFLEX CR is a corrosion resistant, elastomeric, flexible, 100% solids epoxy which combines the toughness, adhesion and durability of epoxies with the flexibility common to polyurethanes. Flexibility is achieved without the use of plasticizers or other additives which migrate from a material as it ages or is degraded due to environmental conditions. Resistance to acids, alkalies and some solvents expands application possibilities. SOLHYDFLEX CR may be used with fiberglass mesh to bridge larger cracks and joints.

- ▶ Mechanical and boiler rooms
- ▶ Primary and secondary containment applications
- ▶ As part of corrosion resistant system in conjunction with STRUCTUROC HCR-F and HCR-F(n) polymer concretes and SOLHYDTOP systems.
- ▶ Also available in a 100% solids, polysulfide elastomeric version for applications requiring exposure to very harsh chemicals, hydrocarbons and U.V. degradation.

**Coverage:** A 18L (4.75 gal) unit will cover 23.6m<sup>2</sup> @ 30 mils (254 ft<sup>2</sup>).

**Packaging:** 18L (4.75 gal) units



**SOLHYDROC**

SOLUTIONS FOR CONCRETE

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