

SOLHYDFLEX C.R.

Corrosion-resistant, elastomeric and flexible 100% solids epoxy

SOLHYDFLEX C.R. 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 C.R.** may be used with fiberglass mesh to bridge larger cracks and joints.

USES

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

TYPICAL USES:

- 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.

Consult **SOLHYDROC** for specific exposure to chemicals in all process.

PRODUCT FEATURES

- Bridges hairline cracks, suppresses reflective cracking of flooring and overlays
- Retains long term flexibility due to unique chemistry and flexible fillers
- May be installed in occupied facilities (zero VOC)
- Adds significantly to systems thermal shock resistance, remains flexible at low temperatures
- Excellent corrosion resistance

SURFACE PREPARATION

This is the single most important step. The life of the flooring system will be considerably longer if the following recommendations are respected.

- Concrete surfaces must be sound and all existing coatings must be removed. A new concrete must cure at least 28 days. Best results are obtained on a dry surface.
- Remove all debris from working area.
- Remove all oils, greases, dirt and wax solutions from surface.
- Use sandblasting, Shotblast or other mechanical means to remove all traces of contaminants that could affect proper bond.

Special attention must be given to oils or other materials that may have penetrated the concrete surface.

Pull tests are recommended to verify adequacy of preparation.

PRIMING

The installation of **SOLHYDROCOAT PRIMER 100** or **SOLHYDROCOAT PRIMER HS** is recommended prior to the installation of **SOLHYDFLEX C.R.**. Apply primer to a thickness of 5 to 10 mils using specified airless spray equipment or a short nap roller with a non-degradable core. The **SOLHYDFLEX C.R.** should be applied while the primer is tacky. For more information on **SOLHYDROC** Primers consult the individual data sheets.

MATERIAL PHYSICAL PROPERTIES @ 25°C (77°F)

COMPONENT A RESIN			COMPONENT B HARDENER	MIXED A+B	PHYSICAL TESTING	
Specific Gravity	1.16	0.98	1.10		Hardness Shore D	50/40
Color	Grey	Amber	Grey		Elongation ASTM D412	80%
% of Solids	-	-	100%		Tensile Strength ASTM D412	1700 psi
VOC	-	-	< 100 g/l		Adhesion ACI 503 R 100% concrete failure	300 psi
CURING @ 50 RH					Thermal Cycling ASTM C884 24 hours (-21°C to 25°C) (-6°F to 77°F)	No cracking
Dry to the touch		12 hours			Flammability ASTM D635	Self-extinguishing over concrete
Recoat time		24 hours			MIX RATIO	
Final cure		72 hours			A	B
Pot life		20-25 minutes			Volume	1 1

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MIXING

Open component "A" and mix resin until a homogeneous mix is obtained. Open component "B" and pour into component "A" recipient. Mix using a low speed jiffy type mixer (200-300 rpm) until a homogeneous and uniform mix is obtained.

PRODUCT APPLICATION

Apply **SOLHYDFLEX C.R.** using a squeegee, roller or combination of both methods by respecting the specified application rates. Silica sand may be broadcasted into the wet surface to achieve a "Build-Up" system or an anti-slip finish. **SOLHYDFLEX C.R.** can be spray applied using a Graco type pumps, consult your local **SOLHYDROC** representative

CURING

SOLHYDFLEX C.R. is a self-curing material.

ESTIMATING/YIELD

SOLHYDFLEX C.R. is packaged in 37.8 L (10 gal) units. A unit will cover 50 m² @ 30 mils (535 ft²).

PRECAUTIONS / RESTRICTIONS

Slabs on grade requires vapor/moisture barrier. Substrate must be structurally sound and free of ponding water and/or bond inhibiting contaminants. During application and initial cure cycle substrates and ambient air temperatures must be at a minimum of 5°C (41°F). The temperature of the substrate must be at least 3°C (6°F) above the dew point.

MOISTURE SENSITIVITY

Best results are obtained on dry surfaces.

PACKAGING

SOLHYDFLEX C.R. 7.56 L (2 gal) unit
37.8 l (10 gal) unit

RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory installation:

- Power drill with "Jiffy" type mixer
- Squeegee
- Roller
- Airless spray equipment (Graco type)

CLEANING

Use **ACETONE** to clean all tools and equipment.

STORAGE

Store in heated dry area, on skids.

SECURITY

See Material Safety Data Sheet.

SOLHYDROC WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. SOLHYDROC makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

For Professional Use Only

www.solhydroc.com