

SOLHYDCRETE AN

High performance, fast setting, thick-set concrete

SOLHYDCRETE AN is a self-consolidating concrete with a high initial resistance and extendend handling time. **SOLHYDCRETE AN** contains fibers and is shrinkage compensated. It is dimensionally stable and forms an intergral bond with existing concrete, to restore its structural integrity. **SOLHYDCRETE AN** can be placed in one step, at thicknesses ranging from 40 mm to 400 mm (1,5" to 16").

USES

Permanent indoor and outdoor concrete product for rapid repair

TYPICAL USES:

- Concrete supports and footings repairs
- Rehabilitation of concrete base
- Bridge structure repairs
- Quick repair of concrete floor, walls and colums for industrial use

PRODUCT FEATURES

- Very fast and very high initial resistance
- Self-consolidating concrete, no vibration needed while placing material
- Increased handling time
- Dimenstional stability
- Meets the requirements of ASTM C- 928 about concrete removal
- High resistance to adhesion
- Possible application to diffrerent concrete thicknesses
- The materical can be easily pumped and placed
- Fiber is incorporated into the mix

SURFACE PREPARATION

The surface to be repaired must be clean and rough and must be free from any curing agent, oil, grease, delaminated concrete, dirt and dust or any other substance may interfere with adhesion Remove any damaged concrete to obtain a healthy substrate. Delimit by a kerf of at least 25 mm around the surface to be repaired. Preparation must be done mechanically to achieve a contoured surface condition (CSP) of 3 according to the guide 310.2 from ICRI. Saturate the surface to be repaired with clean water; remove any stagnant water before and during the work. The surface must be saturated, superficially dry (SSS). steel must be well cleaned and free of all traces of rust in accordance with SSPC SP10. A space of at least 25 mm must be released behind any exposed reinforcing steel.

PRIMING

Primer is not required. If necessary, prime the rebar with **SOLHYDBOND ARMATURE**

MATERIAL PHYSICAL PROPERTIES @ 22°C (72°F)

MATERIAL PHISICAL PROFERENCE & 22 C (72 1)						
	RESSION RESISTANC		SC	SCALING RESISTANCE ASTM C672		
CYLINDER OF 100 MM X 200 MM (4X6")			50 cycles	0	Loss of 22,7g/m ²	
2 hours	18,0 MPa	(2 610 psi)		LENGTH CHANG	~F	
24 hours	36,0 MPa	(5 220 psi)	AS	ASTM C157 WITH C928 MODIFICATION		
7 hours	45,0 MPa	(6 500 psi)	TIME	Mature in the a	ir Mature with water	
28 hours	53,0 MPa	(7 685 psi)			(in immersion)	
	<u>'</u>	` ' ' '	5 days	-0,049 %	-0,014 %	
RESISTANCE TO FREEZE / THAW ASTM C666 PROCEDURE B MODIFIED			28 days	-0,062 %	-0,009 %	
			20 44/5	,	0,000 70	
Cycles	Substainability factor (RDF)			FLOW RATE		
300	86,3 %		Norm CSA A23.5	- 5C	675 mm ± 75 mm	
	CURING		RAPI	RAPID CHLORIDE PERMEABILITY ASTM C-1202		
Working time		40 minutes	28 days	<500	Coulombs	
Initial Setting ASTM C-403 Min. 45 minutes						
Final Setting ASTM C-403 Max. 75 minutes						



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ESTIMATING / YIELD

SOLHYDCRETE AN, is packaged in 25kg bags or boilers that yields 12.5L when mixed with 2.4L to 2.6L drinking water (10% to 10.5% per weight of dry mix).

SPREADING CAPACITY per 25 kg bag:

 Nominal thickness
 Coverage approx.

 40 mm (1,6")
 0,3 m² (3,3 ft²)

 50 mm (2")
 0,25 m² (2,64 ft²)

 100 mm (4")
 0,12 m² (1,32 ft²)

PRECAUTIONS AND RESTRICTIONS

- Do not apply on fresh concrete
- · Do not use bounding agent
- Do not apply at any temperature below 5°C
- Do not add adjuvant to this product
- Do not add agregate to this product. Already formulated for deep repair.

PRODUCT MIXING

Place the mixers near the workplace. SOLHYDCRETE A.N remains manageable for a minimum of 40 minutes. Pour the recommended amount of water into a mixer. Add SOLHYDCERTE A.N and mix for a 3 minutes period until a homogeneous consistency is achieved. Pour or pump the mixture directly into the formwork on the surface to be repaired. Throw any material that has hardened. For larger flows or any applications at temperatures below 5 C or above 35 C, you must contact your local SOLHYDCROC representative.

PRODUCT APPLICATION

PI ACING

SOLHYDCRETE AN concrete does not require any bonding agent. As soon as the mixing is complete, palce the product on the surface to be repaired. Make the placement from one side to the other and not from the middle to te edges.

FINITION

Smooth and level the material to the desired height. After leveling, the surface can be finished with trowel of wood.

CURING

As soon as the repaired surface had sufficiently hardened, saturate the surface with water, then apply wet burlap and cover it with polyethylene for at least 2 hours, or apply a ripening membrane as soon as **SOLHYDCRETE AN** has made its final setting. To improve the ripening leave the formwork in place for 3 days following the application of

SOLHYDCRETE AN

CONDITIONING

SOLHYDCRETE AN

Sac de 25 kg

Quantity: 56 un. pallet

RECOMMENDED TOOLS

The following tools will ensure efficient and economical installation:

- Mixing machine
- Mortar pump Bunker B100
- Wood or magnesium trowel

CLEANING

Use water to clean tools immediately after use.

STORAGE

Store in a cool / dry place. The product can be kept in closed bags for 12 months.

SAFETY

See the safety data sheet.

SOLHYDROC INC. guarantees the quality of its products. These are in accordance with the description given in the data sheets and on the labels. SOLHYDROC Inc. has no control over site conditions, methods of use and condition. Solhydroc warrantly covers only the high quality of its products.

Product for professional use

www.solhydroc.com