

STRUCTUROC E.X.T.

High strength, fast setting mortar for deep repairs

STRUCTUROC E.X.T. is a fast setting, high strength repair mortar that produces a rapid and permanent repair for concrete. **STRUCTUROC E.X.T.** is dimensionally stable and forms an integral bond with the existing concrete to restore its structural integrity. **STRUCTUROC E.X.T.** can be placed at thicknesses ranging from 6 mm to 75 mm in one single operation. For thicknesses greater than 75 mm this product can be extended with an aggregate (up to 20%) to produce a fast setting concrete.

USE

For leveling and deep vertical and horizontal repairs

TYPICAL USES

- Repairs of concrete walls
- Deep repairs to spalled concrete
- Leveling of floors
- Quick repair and turn-around of industrial floors which can be put in service in 3 hours after placement
- Repair of concrete bases

PRODUCT FEATURES

- Permanent repair of concrete
- Excellent bond strength
- Dimensionally stable
- Virtually no drying shrinkage
- Can be placed at variable thicknesses
- Wear resistant
- Easy to install and economical

SURFACE PREPARATION

Proper repairs depend upon a solid bond between mortar and base surface. Thoroughly clean and roughen subject area. Remove any curing compound, grease, oil, loose carbonated concrete, dirt, rust, and other contaminants from exposed slab. Remove all damaged concrete to obtain a sound clean concrete surface in a sawcut area perimeter to a depth of at least 6 mm (1/4"). If possible, saturate area at least 12 hours prior to applying mortar. During application, area should be saturated but free of standing water.

PRIMING

No primer required.

ESTIMATING/YIELD

STRUCTUROC E.X.T. is packaged in 22.7 kg (50 lbs.) polyethylene bags or plastic pails. Yields 12 liters when mixed with 2.4 liters of water that will cover approx. 1 m² (11 ft.2) at 10 mm thickness.

Coverage per bag of 22.7 kg:

Nominal thickness	Approximate area
12,5 mm (1/2")	1 m ² (11 pi ²)
25 mm (1")	0,5 m ² (5,5 pi ²)

PRECAUTIONS/RESTRICTIONS

- Apply to pre saturated surfaces only.
- Do not apply on fresh concrete
- Do not apply on a bonding agent
- Do not apply at temperature under 5°C
- Do not use limestone as a filler aggregate

MATERIAL PHYSICAL PROPERTIES @ 21°C (70°F)

COMPRESSIVE STRENGTH ASTM 109*, 2"(50 MM) CUBES			RESISTANCE TO FREEZE / FREEZE CYCLES		RUBBER RESISTANCE ASTM C-672		
1 hour	8.8 MPa	1,275 psi	Cycles	Sustainability factor (RDF)	50 cycles	1A	Lost of 84 g/m ²
3 hours	15.6 MPa	2,260 psi	300	94%	LENGTH CHANGE , ASTM C-157 WITH C-928 MODIFICATION		
1 day	34.5 MPa	5,000 psi	RÉSISTANCE DE LIAISONNEMENT ASTM C-882		Time	Air cure	Water cure (immersion)
3 days	38.0 MPa	5,500 psi	7 days	12,0 MPa	1,700 psi	7 days	- 0.0490%
7 days	41.4 MPa	6,000 psi	SET TIME ASTM C-191*		28 days	- 0.0620%	- 0.0140%
28 days	49.0 MPa	7,100 psi	Initial ASTM C-403	45 minutes			
FLEXURAL STRENGTH ASTM			Initial ASTM C-403	55 minutes			
7 days	10.8 MPa	1,565 psi					

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■ PRODUCT MIXING

Place mixers close to repair area. Approximate initial set of **STRUCTUROC E.X.T.** is 45 minutes @22.50C (72°F). Mix only an amount that can be placed and finished before initial set. Place recommended amount of clean water into the mixer, add the **STRUCTUROC E.X.T.**, mix for 2 minutes (if extended add aggregate, up to 20% by weight) and continue to mix until a smooth mixture is obtained. Dispense directly into worksite wheelbarrows or pump hopper. Discard any material that stiffens. Do not retemper. For large pours or temperatures that are below 5°C or above 35°C, contact your local **SOLHYDROC** representative.

■ PRODUCT APPLICATION

SETTING

No bonding agent is required for **STRUCTUROC E.X.T.** Immediately upon completion of mixing dump and place material in repair area. Place starting from one side of site only, NOT toward middle from opposite directions.

FINISHING AND CURING

Level and screed material to proper height. Float edges with wooden or magnesium trowel only. As soon as the material surface has sufficiently hardened apply wet burlap or rags to finished area and cover with polyethylene or keep water ponded on patch, for a minimum of 2 hours.

■ CURING

Aussitôt la surface réparée et suffisamment durcie, arroser avec de l'eau et couvrir d'une jute mouillée (ou d'un tissu humide) et recouvrir avec des bâches de polyéthylène pour un minimum de 2 heures.

■ PACKAGING

STRUCTUROC E.X.T. Bag of 22,7 kg (50lbs)
56 bags per pallet

■ RECOMMENDED TOOLS

The following tools will ensure an efficient and economical installation:

- Trowels of steel, magnesium or wood
- Drill $\frac{3}{4}$ " equipped with a vane mixer
- Mortar mixer (for large volume)

■ CLEANING

Use water to clean tools immediately after use.

■ STORAGE

Store in a cool dry area avoiding moisture. Can be kept in unopened bags for 18 months.

■ SAFETY

See Material Safety Data Sheet.

This product contains Portland cement and silica sand. It can cause irritation to the eyes and skin. Avoid contact with the eyes and prolonged contact with the skin. Do not breathe the powder. In case of contact, rinse thoroughly with water.

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.

Product for professional use

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