

ConFix AG

High Strength Epoxy Grout for Steel Bar/ Bolt Anchoring

DESCRIPTION

ConFix AG is a solvent-free fast curing, filler extended epoxy grout specially designed for use as anchoring fixing of steel bars/ bolts into masonry & concrete. It is supplied as a three component system consisting of epoxy resin, hardener and selected aggregate to produce flowable grout suitable for hole dais of 20-45 mm.

FEATURES & BENEFITS

- High strength
- Durability
- Easy application
- Excellent adhesion
- Steel protection
- Chemical resistant

TYPICAL PROPERTIES:

Appearance	3 Components, Epoxy resin, hardener & selected aggregate
Color	Brownish when mixed
Pot Life	35 minutes @ 20° C
Initial Cure	24 hrs. @ 20° C
Full Cure	7 days

APPLICATIONS:

Surface Preparations

Concrete Substrate:

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any loose concrete should be removed and repaired to provide a solid foundation. Drilled holes must be dust proof.

Steel Bar & Bolts:

All bars should be deformed. This will ensure good bond with concrete.

Bars/ Bolts should be degreased and any mill scale or flaky rust removed.

Mixing:

ConFix AG H is used for horizontal and overhead grouting of the steel bars & Bolts. Once mixed, paste type grout is produced which is suitable for horizontal and overhead steel anchoring.

ConFix AG V is used for grouting of vertical downwards holes. Once mixed, free flowing grout is produced suitable for vertical downward steel anchoring.

Only a complete pack of epoxy resin, hardener and aggregate should be mixed in one operation. Mixing may be carried out manually or mechanically. When a smooth, even consistency is achieved, the grout is ready for use. It must be placed well within the gel time of the grout.

Application:

Pour mixed **ConFix AG H/ V** into the drilled holes, followed by anchoring the steel bar/ bolt into the hole. Do not attempt to rework or re-temper any partially set product. Avoid waste by using all the kit within 15-20 minutes of mixing. Note: A large volume of epoxy product may exothermic and set prematurely if not used immediately.

Curing:

ConFix AG H/ V is suitable for light loads after 24 hours. Allow 7 days for full cure.



TECHNICAL PROPERTIES ON CURING:

Compressive Strength ASTM C-579	1 day	42 N/mm ²
	3 days	74 N/mm ²
	7 days	90 N/mm ²
Bond to Concrete	Exceeds tensile and shear strength	
Impact Resistant	Greater than concrete	
Chemicals Resistant	Excellent resistant to most chemicals	
Abrasion Resistance	Greater than concrete	
Flexural Strength: ASTM C-580	1 day	24 N/mm ²
	3 days	25 N/mm ²
	7 days	26 N/mm ²
	28 days	29 N/mm ²
Modulus of Elasticity: ASTM C-580	1 day	(6.5 x 10 ³) N/mm ²
	28 days	(8.5 x 10 ³) N/mm ²
Tensile Strength: ASTM C-307	3 days	2,000 Psi
	7 days	2,040 Psi
	28 days	2,040 Psi

PROPOSED SIZES:

Bar Size	Hole Diameter	Hole Depth (mm)			
12.5	18	280	250	225	200
16	20	490	445	400	355
20	25	615	555	500	440
25	32	750	675	615	540
32	38	1035	930	845	745
40	45	1365	1225	1115	980

PACKAGING:

ConFix AG H/ V is available in 1 Ltr. Tin Pack

HANDLING & STORAGE:

ConFix AG H/ V has a shelf life of 12 months if kept in a dry cool place in the original packing.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5⁰ C or greater than 40⁰ C are encountered, Care should be

taken while handling, storing and fixing **ConFix AG H/ V**.

Protective gloves, goggles and clothing should be worn. Any contact with eyes or skin should be washed off with soap and clean water. Repeated contact with epoxy resins and hardeners can cause sensitization in some people handling this type of product. Where this occurs, seek medical advice before continuing use. If accidentally swallowed, seek immediate medical attention.

Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.