



The Chemical Company

CONGRESIVE® 2002

Fast Setting Adhesive for Chemical Anchoring

Description of Product

CONGRESIVE® 2002 is polyester based, fast setting adhesive for chemical anchoring in cartridge packaging.

Fields of Application

- Chemical anchoring to concrete and brick walls,
- Cap seal and entry ports installation in epoxy-polyurethane injection works,
- Repair and insulating of wide cracks,
- Bonding of various types of construction materials such as steel, concrete, brick to each other,

Features and Benefits

- Rapid curing.
- Can be applied on damp surfaces on concrete.
- Pasty consistency, easy to apply and non-sag properties in over-head applications.
- Resists to chemicals.

Application Procedure

Preparation of Anchor Holes

Anchor holes should be drilled 6 mm wide than anchor bar's diameter and drilled in designed depth. The holes should be cleaned by using a steel brush and air guns.

Anchor bars should be cleaned from rust, dust and grease before anchoring. Steel brushes and solvents can be used for Cleaning of Tools.

Mixing

CONGRESIVE® 2002 is packaged in ready to use cartridges. Fix the mixer nozzle to the front end of the resin cartridge. Fit the resin cartridge into the special dispenser gun and apply the correct number of trigger pulls until the colour of the resin comes out from the nozzle, changes.

Technical Data

Product Chemistry	Polyester
Colour	Beige
Mixed Density	1.70 ± 0.05 kg/liter
Application Temperature	+5°C - +35°C
Pot Life (23°C)	4 minutes
Recoat after (23°C)	20 minutes
Service Temperature	-30°C - +80°C
Fully Cured at 23°C	1 hour



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Application Method

After removing the first resin came out from the nozzle apply the correct number of trigger pulls starting at the far side of the drilled hole. Insert the rebar or threaded rod into the hole. Install the anchor bar into the hole slowly by screwing and do not drive the bars. For threaded rods, apply the correct tightening torque only after the curing time specified for the resin.

Temperature	Working Time	Full Cure
+5°C	20 min.	2 - 3 hours
+20°C	6 min.	1 hour
+30°C	3 min.	45 min.
+35°C	1 min.	30 min.

Pulling Loads for Concrete

Dowel Diameter (mm)	8	10	12
Min. Hole diameter (mm)	10	12	14
Hole Depth (mm)	80	100	120
Min. Pulling load (kN)	7	11	16

(The figures above are given for C35 concrete and St 420 steel)

Chemical Resistance Table

Substance	Long Term Immersion	Temporary Immersion	Short Term Immersion
Water	+		
Sea Water	+		
Hot Water (< 60°C)	+		
Petroleum	+		
Jet fuel	+		
Methanol		+	
Ketone		+	
Soda (50 %)		+	
Hydrochloric Acid (+20°C)		+	
Sulfuric Acid (+60°C)			+
Sitric Acid		+	

Coverage

Varies

Watchpoints

- Do not use the resin first coming out from the nozzle.
- During the application the substrate and environment temperature should be between 5-35°C.
- Do not apply the product on to the wet surfaces.
- Resinous materials' pot life and curing times vary depending on the relative humidity, substrate and environment temperature. Reaction gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which results to short pot life and working time. For full curing of material, both the substrate and environment temperature shouldn't be under allowed application temperature.

Cleaning of Tools

After the application all tools should be cleaned with a proper detergent or solvent such as thinner. **CONCRECIVE® 2002** can be cleaned with only mechanical abrasion after hardening.

Packaging

345 ml cartridge

Storage

Store in original container in cool (+5°C - +25°C) and dry indoor conditions.

Shelf Life

12 months under proper storage conditions after production date.

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Health and Safety Precautions

It is dangerous to get close to the store areas with fire. The store must be well ventilated. Work clothes, protective gloves, glasses and mask defined in Labour Laws must be used during the application. Avoid from material to contact with skin and eyes. In case of contacting wash your skin with water and go to doctor immediately

Don't bring any food and drink to the application area. Store the material away from the children. For further information Material Safety Data Sheets should be read.

Disclaimer

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