

VINYL MAGNEKON



INDEX

1. Code registry
2. Use and lying
3. Further advice
4. Technical specification

VINYL MAGNEKON two-component chemical cartridge anchor VINYL MAGNEKON is a styrene-free vinylester resin suitable for heavy and structural loads for fastenings in concrete, solid masonry, hollow bricks and wood.

It is CE-marked and ETA-qualified according to EAD 330499-01-0601 for non-cracked concrete, Option 7, diameters M8 to M30 and for improved adhesion bars Ø8 mm to Ø32 mm and for cracked concrete, Option 1, for bars M10-M12-M16-M20 and in seismic category C1 for diameters M12-M16-M20 and seismic category C2 for diameters M12-M16. The product is also CE marked and ETA qualified according to EAD 330087-00-0601 for post-installed connections in reinforced concrete diameters Ø8 mm to Ø32 mm.

1. CODE REGISTRY

	DESCRIZIONE
TRADE NAME	VINYL MAGNEKON
PRODUCT CODE	BFO01-200
PRODUCT TYPE	Two-component styrene-free vinylester chemical anchor
PACKAGE	300 ml cartridge and mixer; box of 15 pcs.
QUALIFICATION	CE and ETA in accordance with EAD 330499-01-0601 Opt. 1 and 7, seismic category C1 and C2; CE and ETA in accordance with EAD 330087-00-0601.

1.1 PHYSICAL AND TECHNICAL FEATURES

LAYING TIMES AND TEMPERATURES		
Support temperature [°C]	Hardening time	Loading time
-10	1h 45 min	24 h
-5	65 min	14 h
0	45 min	7 h
5	25 min	1 h 30 min
10	16 min	1 h
20	7,5 min	40 min
25	5 min	35 min
30	3 min	30 min
35	2 min	25 min

Minimum cartridge temperature for application + 5°C
In the presence of water, double the loading time

VINYL MAGNEKON

MECHANICAL PROPERTIES FOR POST-INSTALLED CONNECTIONS ON CONCRETE OF IMPROVED ADHESION STEEL BAR TYPE B450C.
Design adhesion stresses [MPa]

Diameter [mm]	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
From Ø8 to Ø14	1,60	2,0	2,30	2,70	3,00	3,40	3,70	4,00	4,30
From Ø16 to Ø20	1,60	2,00	2,30	2,70	3,00	3,40	3,70	4,00	4,00
Ø 22	1,60	2,00	2,30	2,70	3,00	3,40	3,70	3,70	4,00
Ø24 and Ø25	1,60	2,00	2,30	2,70	3,00	3,40	3,70	3,70	3,70
Ø28	1,60	2,00	2,30	2,70	3,00	3,40	3,40	3,40	3,40
Ø30 nd Ø32	1,60	2,00	2,30	2,70	2,70	2,70	2,70	2,70	2,70

2. USE AND LYING

2.1 USE

VINYL MAGNEKON is supplied in two-component cartridges (resin and hardener) that are mixed on the mixer screwed onto the cartridge head during product extrusion. By changing the mixer, the cartridge can be reused at later times.

VINYL MAGNEKON finds use in:

- Engaging ELLEKON connectors in systems for structural reinforcement according to the CRM technique, Prometheus HT.
- Fixings on concrete (tensioned and compressed), masonry structures including hollow bricks and wood;
- Fixings on concrete under seismic action (category C1 and C2)
- Post-installed connections of improved adhesion bars.

It is possible to use the product in dry, wet and flooded hole concrete (flooded hole threaded bars only). The temperatures of the substrate (concrete, masonry etc.) for installation must be between -10°C and +40°C.

2.2 ADVANTAGES

Some advantages of VINYL MAGNEKON:

- Totally styrene-free and with a characteristic odor, it can also be used indoors.
- Suitable for dry fastenings and in the presence of water.
- High adhesion value anchor for medium and heavy fixings.
- Does not expand therefore does not create tension in the base material.
- Suitable on all support materials;

2.3 LAYING

- 1) Drill the hole with the correct diameter and depth using a roto-percussion drill press. Check the perpendicularity of the hole during the drilling operation.
- 2) Blow and clean the hole in order to remove dust and any loose material;
- 3) Unscrew the cap of the 300 ml cartridge, pull out the metal locking clip according to the following steps:
 - insert the mixer into the slot of the plastic extractor,
 - pull the extractor to pull out the metal bag-closing clip.
 Then, screw the mixer on and insert the cartridge into the pump (the cartridge is compatible for use with silicone gun).
- 4) Before using the cartridge, make sure that the two components have completely mixed by extruding a first part of the product before use. The color of the correctly mixed product is uniform.
- 5) Fill the hole starting from the bottom by removing the mixer slowly step-by-step out of the hole during the injection operation to prevent air bubbles from forming. Fill the hole with an amount of product corresponding to 2/3 of the drilling depth.
- 6) Immediately afterwards, insert the bar to be fixed, previously marked according to the intended length for anchoring, slowly and in a rotary motion. Remove any excess product formed around the end of the bar. Comply with the workability and loading times.

VINYL MAGNEKON

3. FURTHER ADVICE

STORAGE

The product will keep for up to 14 months in unopened packages. Store in the original package in a dry and cool place between +5°C and +30°C away from direct sunlight.

SAFETY INSTRUCTIONS

For safe use of our products refer to the latest version of the Safety Data Sheet, available at www.dakota.eu.

PRODUCT FOR PROFESSIONAL USE

WARNINGS

The data given correspond to our current technical and application knowledge for the appropriate use of the product and are to be considered, in any case, indicative and general, therefore not binding for the same. We recommend that a prior practical test be carried out in order to verify the suitability of the product with respect to its intended use, purposes and consumption. The purchaser is responsible for verifying the suitability of the products described in this document for its intended use and purposes. Always refer to updated versions of data sheets available at www.dakota.eu

4. TECHNICAL SPECIFICATION

Item	Description	U.M.	Price
Dak.B.BFO01-200	<p>VINYL MAGNEKON two-component chemical anchor in cartridges. Styrene-free vinylester resin suitable for heavy and structural loads for fastenings in concrete, solid masonry, hollow bricks and wood. CE marked and ETA qualified according to EAD 330499-01-0601 for non-cracked concrete, Option 7, diameters M8 to M30 and for improved adhesion bars Ø8 mm to Ø32 mm and for cracked concrete, Option 1, for bars M10-M12-M16-M20 and in seismic category C1 for diameters M12-M16-M20 as well as in seismic category C2 for diameters M12-M16. The product is also CE marked and ETA qualified according to EAD 330499-01-0601 for post-installed connections in reinforced concrete diameters Ø8 mm to Ø32 mm. VINYL MAGNEKON finds use in:</p> <ul style="list-style-type: none"> • Grouting of ELLEKON connectors in systems for structural reinforcement according to CRM technique, Prometheus HT. • Fixings on concrete (tensioned and compressed), masonry structures including hollow bricks and wood; • Fixings on concrete under seismic action (category C1 and C2) • Post-installed connections of improved adhesion bars. 	pz	-