



#### RESIMIX s.r.l.

Via A. Pacinotti, 12/14 - 36040 BRENDOLA (VI)

Tel. 0444-400773 r.a. - telefax 0444-601662

[www.resimix.com](http://www.resimix.com) - email: [info@resimix.com](mailto:info@resimix.com)



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# REPIKIT VE 40

## CARTRIDGE VINYLESTER SYSTEM FOR FAST FIXINGS – CHEMICAL BOLT

380 ml cartridge thixotropic bi-component adhesive paste based on vinylester resins for fast fixing of connectors and bolts to any building material.

### Areas of use

REPIKIT VE40 is used to:

- Fix bolts, connectors, threaded and tension rods to any building material: bricks, perforated blocks, full bricks, concrete and stone;
- Fixing of electric and hydraulic plants in metal structural work, window and door frame installations, plates, shelves, reinforcing rod anchorage, cramps and any type of fitting;
- Fix road barriers or guardrails to concrete.

### Features

REPIKIT VE40 enables you to quickly make reliable fixings with no risk of wrong dosage because the two components, resin and catalyst, are preweighed.

The two are blended outside the cartridge using a static mixer when the product is extruded: thanks to outside mixing the cartridge can be partially used in different moments by simply replacing the nozzle of the mixer.

Resin and catalyst have two different colours for visual control during mixture; after the first 10 ml of extruded product an evenly coloured material is achieved. It ensures an even product and constant quality during fixing.

Product reactivity increases with temperature.

The cartridge has a gradual scale which enables you to measure the injected amount.

### How to use

#### Preparation of the support

Make a regular size hole and clean it with a pipe cleaner and compressed air to eliminate fragments and dust; do not use water for cleaning. If fixing is made on bricks or stone masonry. Insert the screened bush with restraint ring.

#### Preparation of the product

Screw the static mixer on the head of the cartridge and extrude its contents using the appropriate coaxial gun (manual or pneumatic) eliminating the first 10 ml of material until the colour of the paste gets homogeneous.

## Application

Inject REPIKIT VE40, starting from the bottom of the hole until you fill in approx. 2/3 of the volume.

Insert the fixing element (rod, bolt, etc.) rotating it and moving it with the fingers to get rid of air bubbles to improve adherence to resin. The operation is done correctly when a small amount of material comes out from the hole.

Remove the excess of REPIKIT VE40 from the hole.

If, once the work is finished, the cartridge had not been completely used, unscrew and eliminate the static mixer which cannot be used again and close using the appropriate screw cap.

## Notes

*To reuse a partially used cartridge you need to remove the tap of hardened material, screw a new mixer and repeat the procedure.*

*You must respect workability times between fixings to prevent the product from hardening in the static mixer. Do not expose REPIKIT VE40 cartridges to the sun or heat sources before use to avoid reducing workability times.*

*Best results are achieved when anchorage is done on homogenous materials with high mechanical resistance.*

*Do not use in wet holes.*

## Technical characteristics

Compression strength	80 N/mm <sup>2</sup>
Adhesion to dry concrete	6.4 N/mm <sup>2</sup>
Adhesion to steel	2.5 N/mm <sup>2</sup>
Specific weight	1.65 kg/dm <sup>3</sup>

## Laying geometry

	U.M.	M8	M10	M12	M16	M20
Rod Ø	mm	8	10	12	16	20
Hole Ø	mm	10	12	16	20	24
H hole depth	mm	80	90	110	125	170
Critic wheel base	mm	160	180	220	250	340
Distance from edge	mm	80	90	110	130	170
Minimum support thickness	mm	130	140	160	175	220

## Recommended operating characteristics (design values)

	U.M.	M8	M10	M12	M16	M20
Axial traction	kN	6.9	10.2	14.4	16.8	26.7
45° traction	kN	4.9	7.3	10.3	12.0	19.1
Cut	kN	7.9	12.6	18.3	34.6	54.0
Driving torque	Nm	10	20	40	60	120

Resistance values achieved on class  $\geq$  C20/25 concrete and class 5.8 steel

## Use and hardening times

The table shows working and fixing times (clamping or load application).

Hole temperature	5°C	10°C	20°C	30°C	35°C
Workability time	20'	10'	6'	4'	2'
Fixing time	120'	100'	60'	35'	30'
Fixing on damp concrete	240'	200'	120'	70'	60'

For full hardening wait 24 hours.

## Consumption

The consumption in this table is for fixing on concrete and it provided only as a guide; consumption on brick or masonry is two to three times higher.

Rod diameter [mm]	Hole diameter [mm]	Hole depth [mm]	380 ml cartridge No. of fixings (approx.)
8	10	80	60
10	12	90	50
12	14	110	26
16	20	125	16
20	24	170	8
24	28	210	4

## Packages and storage

380 ml cartridge.

If stored in its original and sealed package, the products remains unaltered for at least a year if kept in a dry environment with a temperature between 5 and 30 °C.

Do not expose to heat sources or put near naked flames.

## Cleaning of tools and health precautions

To clean tools use solvents such as RESISOLV 111, RESISOLV 196 or alcohol.

Polyester resins may cause irritations: please avoid any contact with the skin and spray in the eyes. It is recommended to wear protective glasses and gloves.

Avoid inhaling styrene vapours release by the product during use: ensure proper ventilation during use and wear a protective mask to protect your respiratory tract.

In case of contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.

In case of contact with eyes or mucosa, do not use alcohol. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

**Do not rinse with solvents.**

*The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.*