

Resinglass

Chemical anchoring agent for connectors to be used in CRM strengthening.

Resinglass ensures the anchoring of the Glass Connect L connectors to the substrate for structural strengthening interventions using the CRM technique in combination with Glass Net meshes and the Glass Net A305 corner piece.



1. Excellent adhesion on brickwork, stone and concrete
2. High resistance to flexural and compressive strength
3. Specific for CRM strengthening

Areas of application

→ Intended use:

- Static and seismic upgrade or improvement of masonry and concrete structural elements using the CRM reinforced plaster/render technique in combination with Glass Connect L fibreglass connectors, Glass Net fibreglass meshes and the Glass Net A305 fibreglass corner piece
- Anchoring of Glass Connect L connectors when consolidating masonry arches, vaults and domes
- Compressive and flexural stress and shear for wall panels using the CRM reinforced plaster/render technique in combination with Glass Connect L fibreglass connectors, Glass Net fibreglass meshes and the Glass Net A305 fibreglass corner piece

Resinglass is also suitable for the following substrates:

- Lightweight concrete
- cellular concrete
- Masonry
- Compact natural stone
- solid wood and laminated wood (prior testing for compatibility is recommended).

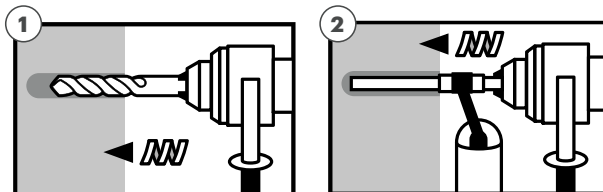
Do not use on dusty or loose surfaces, surfaces soiled with oils, greases and parting compounds that could prevent or reduce product adhesion.

Instructions for use

→ Preparation of the substrate:

Drilling with roto-percussion drill, compressed air drill and hollow bit drill with suction

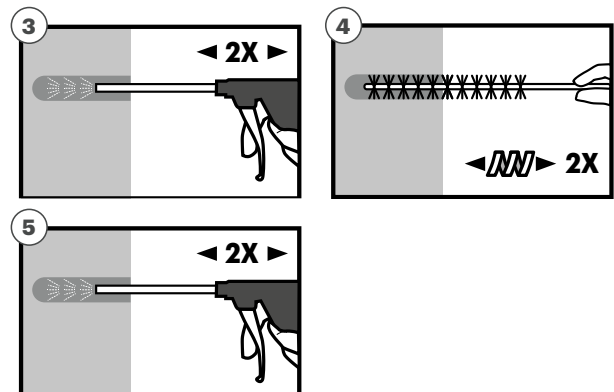
- ① Drilling with a roto-percussion drill or compressed air drill. Drill a bore in the base material of the appropriate size for the diameter of the chosen connector and the depth required by the project. Proceed with step 3. Restore any aborted bores with the resin itself
- ② Drilling with a hollow bit drill with suction. Drill a bore in the base material of the required size and anchoring depth. This drilling system removes dust and cleans the bore while drilling. Proceed with step 3. Restore any aborted bores with the resin itself.



Cleaning the bore

- ③ Starting from the bottom of the bore, blow with compressed air (min. 6 bars) a minimum of two times until the return air flow is clear of visible dust. Use an extension if the bottom of the bore cannot be reached.

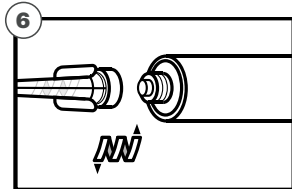
- ④ Choose a metal pipe cleaner with a diameter appropriate to the diameter of the bore and brush along the entire diameter of the bore and the entire depth at least twice in a rotary motion. Use an extension if the bottom of the bore cannot be reached.
- ⑤ Finally, blow the bore again with compressed air (min. 6 bars) at least twice until the return air flow is clear of visible dust. Use an extension if the bottom of the bore cannot be reached.



Instructions for use

Preparation of the cartridge and steel connector:

- ⑥ Unscrew the cartridge cap (do not discard it) and screw the supplied mixer onto the head of the Resinglass cartridge. Insert the cartridge into the suitable side-by-side cartridge gun.



Application

- Extrude Resinglass into the bore using a suitable mixer (and any extensions) to the depth required to completely fill the bore after insertion of the connector.
- Slowly insert the connector (using a rotary motion), ensuring that Resinglass protrudes from the bore after it has been fully inserted. When applying Glass Connect L connectors for CRM strengthening, please refer to the product technical data sheet.

Certificates and marks



Abstract

Supply and installation of a chemical anchoring agent, specific for the anchoring of CRM Glass Net systems, such as Resinglass by Kerakoll Spa, CE-marked, suitable for seismic applications compliant with C1 and C2 performance levels, axial tensile strength 24.3 N/mm², to be used in combination with Glass Connect L fibreglass “L” connectors.

Technical Data compliant with Kerakoll Quality Standard	
Appearance	grey resin
Chemical nature	epoxy resin
Shelf life	≈ 24 months from production in the original sealed packaging
Warning	store in environments with a temperature between +5 °C and +35 °C
Pack	side-by-side cartridge 585 ml
Tools	extrude with the appropriate side-by-side gun
Temperature range for application	from +5 °C to +40 °C

Setting and hardening times

Substrate temperature between +5 °C and +9 °C:

- start of setting	80 min.
- complete hardening	60 hrs (dry substrate)

Substrate temperature between +10°C and +14°C:

- start of setting	60 min.
- complete hardening	48 hrs (dry substrate)

Substrate temperature between +15 °C and +19 °C:

- start of setting	40 min.
- complete hardening	24 hrs (dry substrate)

Substrate temperature between +20 °C and +24 °C:

- start of setting	30 min.
- complete hardening	12 hrs (dry substrate)

Substrate temperature between +25 °C and +34 °C:

- start of setting	12 min.
- complete hardening	10 hrs (dry substrate)

Substrate temperature between +35 °C and +39 °C:

- start of setting	8 min.
- complete hardening	7 hrs (dry substrate)

Substrate temperature +40 °C:

- start of setting	8 min.
- complete hardening	4 hrs (dry substrate)

Theoretical consumption per bore, length 100 mm

Bore diameter	Resin consumption	Number of bores per cartridge
10 mm	4.2 ml	138
12 mm	5.2 ml	112
20 mm	17.0 ml	34
24 mm	20.7 ml	28

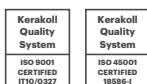
* on wet substrates, the full curing time approximately increases twofold

Performance**HIGH-TECH**

Resistance to compression	112 N/mm ²	EN 196-1
Flexural strength	46 N/mm ²	EN 196-1
Axial tensile strength	24,3 N/mm ²	DIN EN ISO 527-2
Elastic modulus	5.275 N/mm ²	DIN EN ISO 527-2
Elongation at fracture	1.1%	DIN EN ISO 527-2
Degree of shrinkage	≤ 1,4%	DIN 52450
Shore A Hardness	95.8	DIN EN ISO 868
Shore D hardness	84.6	DIN EN ISO 527-2
Density	≤ 1.50 kg /dm ³	
Working temperature	from -40 °C to +72 °C	
Consumption, geometric and mechanical parameters	see Consumption and parameters document	

Warning

- Abide by any standards and national regulations
- do not apply on dirty or loose surfaces
- storage temperatures between + 5°C and + 35°C
- clean tools immediately after use with solvents (ethyl alcohol, toluene, xylene)
- always use protective gloves and eyewear both during mixing and during application
- avoid any contact with the skin
- if necessary, ask for the safety data sheet
- for any other issues, contact Kerakoll Technical Customer Service: + 39 0536.811.516 www.kerakoll.com/contatti



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