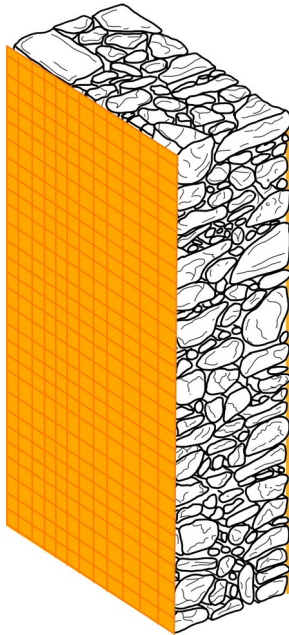


## CRM reinforcing system consisting of A.R. fiberglass mesh and NHL-based mortar

LV93\_SA\_EN\_R5-0919



### APPLICATION DATA SHEET

Structural reinforcement with CRM reinforcing systems through:

1. removal of flaky parts;
2. placement of the reinforcement;
3. preparation of connection systems;
4. skimming.

#### 1) REMOVAL OF FLAKY PARTS

Demolition of existing plaster and flaky parts and scarification of bed joints. Washing and soaking of the surface. Possible reconstruction of missing or particularly damaged masonry parts.

#### 2) ANCHORING OF BARS AND PLACEMENT OF THE MESH

On a saturated substrate with a dry surface, apply a first coat of render to the masonry with natural-hydraulic-lime-based mortar **Basic MALTA M15**.

Place fiberglass mesh **Kimitech WALLMESH HR** (to cut the mesh at the openings use shears and/or construction cutters or angle grinder), partially incorporating it into the fresh mortar of the rough coat, overlapping the mesh strips for about 15 - 20 cm in order to guarantee mechanical continuity.

#### 3) PREPARATION OF CONNECTION SYSTEMS

Drilling (diameter 20 mm) pass-through holes (where the reinforcement on both sides is required) or for a depth of 2/3 of the wall (in the case of reinforcement on just one side) in the number envisaged by the project (however not less than 3 per square meter), carried out in compact areas of the masonry, preferably with rotating tools.

Cleaning of the holes and insertion of pre-formed "L" shaped fiberglass connectors and thermosetting resin with improved adherence **Kimitech PLUG VR** and injection of epoxy resin **Kimitech EPOXY CTR**.

Wait for the first coat to be hard enough, then apply the second coat by hand or by machine. In case of thickness bigger than 30 mm, the application must be done in several layers, applying each different coat on the non-smoothed previous one. The final skimming coat must be applied only after the proper curing time of the applied plaster (wait at least 1 week for each centimeter of thickness, and not less than 3 weeks), so as to seal off any shrinkage cracks, that can occur especially in the case of large thickness plasters (in these cases it is always advisable to reinforce the next pre-finish coat - skimming with mesh **Kimitech 350**).

#### 4) SKIMMING

The final skimming must be carried out only after the proper curing time of the applied plaster (wait at least 1 week for each centimeter of thickness, and not less than 3 weeks) by the application of skimming ready-to-use natural hydraulic lime-based mortar, white in color, **Limepor EDO**.

#### POSSIBLE ALTERNATIVES:

- as a mortar, instead of **Basic MALTA M15** it is possible to use natural hydraulic lime-based mortar **Tectoria M15**, cement mortar **Betonfix RCA**, R3 according to UNI EN 1504-3, thixotropic mortars **Betonfix FB** or **Betonfix MONOLITE**, R4 according to UNI EN 1504-3.

- as a fiberglass mesh, as an alternative to **Kimitech WALLMESH HR** it is possible to use **Kimitech WALLMESH MR**.

- as a resin for grouting, as an alternative to **Kimitech EPOXY CTR** it is possible to use vinyl ester resin **Kimitech VINYL CTR**.