

3.3 Prior Repair or Patch Failure

- Remove existing/damaged patching material down to steel substrate/reinforcement, chamfering sharp edges to leave only sound material in place.
- Attach a new piece of 3.4 lb/yd² (1.84 kg/m²) expanded metal lath or mesh reinforcement into the void by either attaching to existing reinforcement via No. 18 SWG tie wire, or by attaching to the substrate via powder actuated fastener or studwelder. If hexagonal mesh is used in the original application, attach a new piece of plastic coated hexagonal mesh or mesh of 50mm x 50mm x 1.4mm – 1.6mm galvanized hexagonal mesh to the existing mesh using 18 SWG wire ties (or twist cut ends together) and maintain a 2 inch (50 mm) overlap at all joints.
- 3. Position the new reinforcement within the middle third of fireproofing thickness.
- 4. Pre-wet the existing CAFCO FENDOLITE M-II / ISOLATE Type M-II fireproofing material.
- 5. Apply freshly mixed CAFCO® FENDOLITE® M-II or TG (Trowel Grade) / ISOLATE Type M-II or TG material into the void, taking care to push the material behind the reinforcement and completely filling the void.
- 6. Wait approximately 7 to 10 days before re-applying the approved topcoat (if necessary).

3.4 DAMAGE TO CORNER BEAD (IF USED) AND/OR OTHER REINFORCEMENT

- Cut away bent or broken corner bead, lath or mesh and strip away adjacent fireproofing a minimum of 6 inches (150 mm) beyond the repair area in all directions down to steel substrate / reinforcement and chamfer all sharp edges leaving only sound material in place.
- Attach a new piece of corner bead to the existing 3.4 lb/yd² (1.84 kg/m²) expanded metal lath using No. 18 SWG steel tie wire. If hexagonal mesh was used in the original application, attach a new piece as previously described in 3.3.2 above and ensure that it will lie in the mid third of the freshly applied repair thickness.
- Pre-wet the existing CAFCO FENDOLITE M-II / ISOLATE Type M-II fireproofing material surrounding the repair area.
- 4. Apply freshly mixed CAFCO FENDOLITE M-II or TG / ISOLATE Type M-II or TG, flush with surrounding/existing material.
- 5. Wait approximately 7 to 10 days before re-applying approved topcoat (if necessary).

3.5 SIGNS OF RUSTING BEHIND FIREPROOFING (BLEED-THROUGH).

- Remove all CAFCO FENDOLITE M-II / ISOLATE Type M-II material to a minimum of a 12 inch (300 mm) radius around the problem area, down to the steel substrate/reinforcement.
- Observe rusting of surface of steel. In the case that the project inspector feels that the rusting goes beyond the exposed area, strip away the CAFCO FENDOLITE M-II / ISOLATE Type M-II until the rusting has ceased.
- 3. Strip away existing reinforcement.
- Remove loose rust from the steel surface as per SSPC-SP 2/3 Hand and/or Power tool cleaning.
- 5. Ensure that the area is free from loose mill scale, oils, dust, or other contaminants.
- 6. Apply Epoxy Mastic/DTR or other approved surface tolerant epoxy to the surface. The coating must be compatible with the existing coating and the fireproofing material.
- 7. Apply new reinforcement. Attached with powder actuated fastener or studwelder. Studwelds will require additional surface preparation (i.e. grinding down areas to bare metal, pinning, and final touch-up with Mastic/DTR or approved surface tolerant epoxy).
- 8. Pre-wet the existing CAFCO FENDOLITE M-II / ISOLATE Type M-II fireproofing material surrounding the repair area.
- 9. Apply freshly mixed CAFCO FENDOLITE M-II or TG / ISOLATE Type M-II or TG, flush with surrounding/existing material.

The above-mentioned application procedure is applicable to structural steelwork in petrochemical and hydrocarbon processing facilities and shall be read in conjunction with the specific requirements of the client as detailed in any specification prepared for the project.

Unless directed to the contrary in the procedure, CAFCO FENDOLITE M-II / ISOLATE Type M-II must be stored, mixed, applied, controlled and repaired in accordance with Isolatek International's latest CAFCO FENDOLITE M-II / ISOLATE Type M-II, CAFCO FENDOLITE TG / ISOLATE Type TG, CAFCO® FENDOLITE® M-II/P / ISOLATE Type M-II/P Application and Installation Manual.

Should you have further questions pertaining to this matter, please contact the Isolatek International Technical Service Department at 800.631.9600, extension 269.