INSPECTION PROCEDURE FOR WATERTIGHT AND NON WATERTIGHT COLLARS

MARINE FLEX SYSTEM

VISUAL EXAMINATION – direct after finish installation

FireSeal recommends first and foremost visual examination for all penetrations that are accessible. All steps below are applicable to both white and black silicone.

STEP 1,1

Inspect that the sealant has adhered to the sleeve throughout the penetration and that no voids are visible. Any additional caulking that creates a crown outside of the collar or gooping onto the cable jackets improves the waterproofing properties.

STEP 1,2

Inspect that the sealant has adhered to the cables passing through the penetration by gently moving the cable(s) not exceeding 1-2 mm in any direction. If necessary use an inspection mirror or other visual means.

STEP 1,3

Inspect that the cables are separated between each other and from cables to sleeve with a distance of min 5 mm (0,2”).
(For non-watertight penetrations, silicone tightness is not critical from a fire safety perspective and smaller holes and leaks are acceptable e.g. bundled cables are accepted. However, a distance of 5mm (0,2”) between the bundled cables and sleeve shall be maintained. Sealant is not required between the bundled cables)

STEP 1,4

After sealant has cured, use a non-sharp object or your thumb and press into the sealant to detect if at any point the object/thumb penetrates the sealant which would indicate the thickness of sealant is not achieved. Alternatively, a knife can be used to carefully cut away a small piece of the sealant (i.e.20x20mm or 0,8”) and then verify the min thickness of 15mm (0,6”). Reseal with Marine Flex Sealant.

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MARINE FLEX SYSTEM

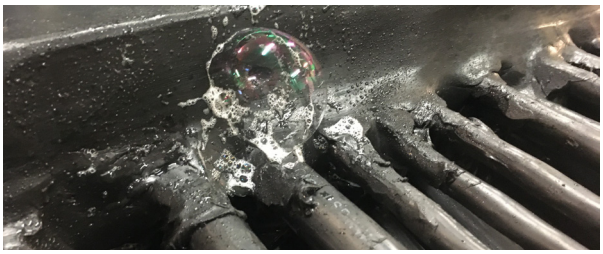
LEAK TEST – after sealant has cured

If visual examination is not applicable FireSeal recommends a test to verify tightness by means of air pressure differential. All steps below are applicable to both white and black silicone.

STEP 2.1

Insert an air hose with a nozzle (with appropriate O/D) through one side of the sleeves silicone layer and apply air pressure of maximum 0,1 bar (1,45 PSI).

STEP 2.2



Inspect both sides of the sleeve for signs of leakage by using a leak indicating solution (soap water). Small indicating leaks (bubbles) are acceptable as long as the leak is only from one side of the penetration only.

STEP 2.3

Before any repair, grease, oil and soap must be removed from the area to be repaired. Repair any leakage detected using Marine Flex Silicone.

STEP 2.4

Finaly, re-seal the hole where the nozzel was inserted with Marine Flex Sealant.

Note: It's important to get good adhesion to sleeve edge and cables / pipes. It is acceptable for the Marine Flex Sealant to be applied so that it follows the cables/pipes as they exit the penetration and / or exceeds 15 mm (0.6") thickness anywhere throughout the layer of sealant.

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