

## Sealing System for Fireproof Cable Penetrations

**KVM** & mangana



## **KVM** Sealing Compound

### Highest Safety in Eco-Friendly Quality

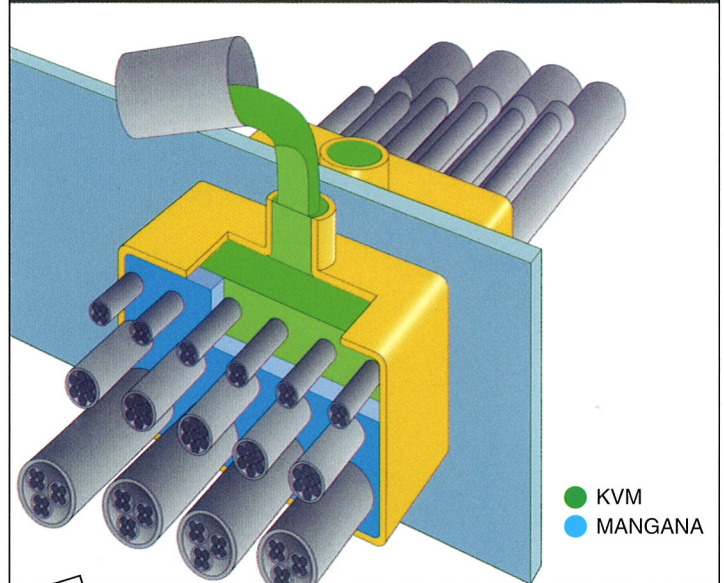
KVM Sealing Compound is the ideal product for fireproof, gas- and watertight sealing of cable transits in bulkheads and decks of type A 60.

The sealing compound is suitable for all types of cables used in shipbuilding. KVM is non-toxic and incombustible. This 2-component sealing compound is made only of inorganic raw materials. The two components being Powder and Original Hardener have unlimited shelf life.

An extensive investigation proved that cable specimens in contact with KVM showed neither corrosion nor changes on the surface. All tested cable specimens still met the requirements of DIN 89158, DIN 89159 and DIN 89160 after six weeks of contact with KVM under exposure of water. In addition KVM also conforms to the specifications of both IEC 92-3, 1965, and JIS 3410, 1976.

To prepare the KVM compound, one part of hardener and two parts of powder are simply mixed in a vessel either by hand or with use of a stirrer. After that, the compound can be poured into the cable ducts which should be pre-sealed by using our specially developed MANGANA putty.

Another favourable point: KVM never shrinks! An expansion of volume during setting causes the pressure of the compound to metal and cable. This guarantees the gas- and watertightness. KVM hardens within 24 to 36 hours, depending on the ambient temperature. Only water is required to clean the equipment, e.g. vessel, pump, etc., that is used for preparing the compound.



Tested according to SOLAS and the IMO-Resolution A. 754(18)  
Approved by the ship classification societies

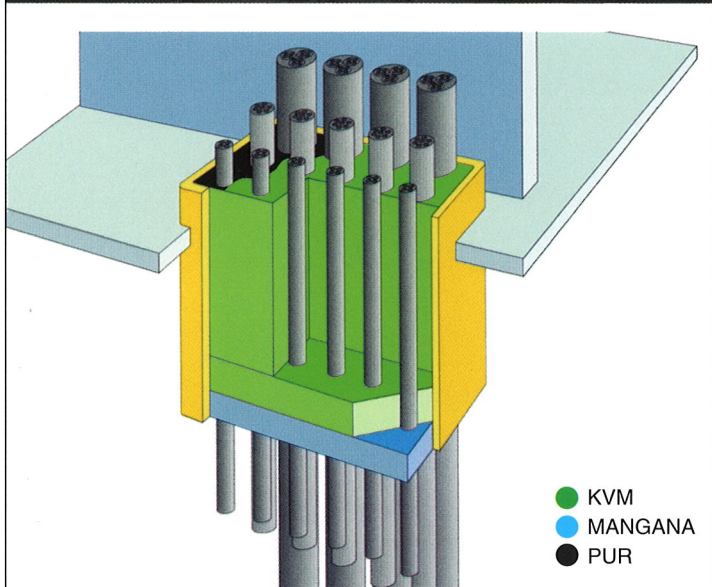
## **KVM** Pump

### The Hand Pump to Fill Up Cable Penetrations

An optimal auxiliary when filling KVM into hard to access cable penetrations.

Mix the two KVM components (Powder and Hardener) in a mixing container according to the processing instruction and then fill the compound into the pump. Put the end of the hose into the filling pipe of the ready prepared cable transit and pump the compound in.





## **KVM** Assembly Modules

### For Fireproof Spacing

The KVM Assembly Modules are used as additional spacer between cables during sealing of cable transits in bulkheads and decks.

The use of KVM Assembly Modules can be particularly necessary when using cables with large diameters (high weight), cables that are under high tension or in the case of cable penetrations with a high occupancy of cables.



## **mangana** Retaining Compound

### The Putty with the Permanently Elastic Properties

MANGANA is a special putty we developed for sealing-up purposes in shipbuilding. In combination with our KVM Sealing Compound the permanently elastic MANGANA is optimal for sealing-up cable transits.

Beyond that, MANGANA putty is highly suitable for sealing cylinders, flanges, joint boxes, cable protecting pipes, etc. MANGANA putty is fire-resistant, does not drip and is not harmful to health.

Resistant to water, sea water, petroleum products, salt solutions and steam MANGANA has – withstanding temperatures from -30 °C to +150 °C – also excellent adhesion to cables and metal. MANGANA is compatible with all types of cables used in shipbuilding.

MANGANA can be applied readily and conveniently simply by hand. MANGANA is supplied in the form of handy bars wrapped in plastic foil.

## **PUR Coating Varnish 300**

### Optimal Protection from Climatic Condition

PUR coating varnish 300 is a solvent-free two package cast resin which, after hardening, is very resistant to effects of both the weather and to chemical influences.

The coating varnish is used for outdoor cable transits on decks to protect them against aggressive influences like saltwater.

The mixture can be painted or poured and is applied onto the dry KVM Sealing Compound surface with a layer thickness of 2 - 3 mm.



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into the whole world**

**Ask for our other products for shipbuilding:**

**MALIMO Glass Fibre Mats,**  
the special **Fire Protection Coatings** for Cables,  
and the **Fire Stop Mats** for Cables.

We look forward to being of service to you!

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