

# Matsumura Oil Chemical Co., Ltd.

Certified as a Hyogo "Only-One" Company in FY2020

## [Company Profile]

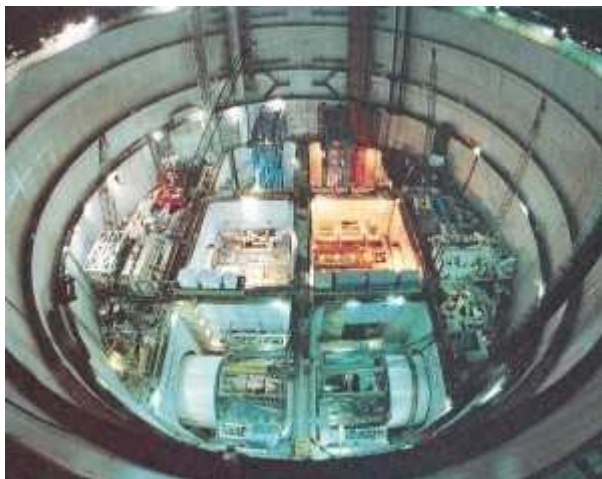
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URL	<a href="http://www.matsumura-oil-chemical.co.jp/">http://www.matsumura-oil-chemical.co.jp/</a> (In Japanese)
No. of employees	30
Capital	36 million yen
Founding	November 1967
Representative	Sunao Maeda

## [Business Overview]

Manufactures and processes sealants, adhesives, civil engineering materials, industrial rubber products, and synthetic resin products

## [Technology]

Applying its own original flame-retardant technology, Matsumura Oil Chemical Co., Ltd. developed a flame-retardant sealant called "Tail Sealer."



Recently, a number of tunnel excavations at great depth are being conducted aiming for effective use of underground space. Ahead of other companies, we focused on water-shielding gaskets for the tail seal part of shield machines. We have made great efforts to develop new sealants (cure-retarding backfill grouts, flame-retardant sealants) with excellent water-tightness and durability against high water pressure. To date, our sealants have been widely used at 3,000 or more shield excavation sites, including large construction projects: the Channel Tunnel to connect UK with France, and the Tokyo Bay Aqua Line. The water-tightness and durability of our sealants have earned an excellent reputation overseas as well as in Japan.

## **[History of development]**

In 1981, while shield excavation technology was developing, protection measures against the high water pressure of shield machines were urgently required. Water-shielding sealants for the tail-seal part of shield machines were very important because conventional grease-based water-tight sealants could not prevent water invasion properly. Therefore, sealants with excellent water-blocking properties against high water pressure were required.

In 1982, Tokyo Electric Power Company Holdings (TEPCO) and Ishikawajima-Harima Heavy Industries (IHI Corporation) requested us to develop a sealant with water-blocking properties against high water pressure. We added a certain amount of specific vegetable fibers and mineral oils to high polymer-based material and developed an unprecedented water-shielding sealant that demonstrated excellent water-shielding and lubricating ability even under high water pressure (8 kg/cm<sup>2</sup>).

## **[Originality]**

Since a fire had broken out at a tunnel construction site, flame-retardant sealants became indispensable because they slow down the spread of fire. Using our original flame-retardant technology for putties, we successfully developed and provided a flame-retardant tail-sealer in a timely manner.

## **[Future Development]**

Our product "Neobelt RP140", a removable multi-purpose sealant, is easy to peel off from metal/film by heating at 120-140° C so it is suitable for temporary tacking. This is an ideal

primary sealing material for thermosetting resins impregnating with composite material requiring lightness and toughness that is comparable to metal. We intend to promote this product as a primary sealant for vacuum formed thermosetting resins.

## [Topics]

We would like to introduce Neo Sealer AT-S.

Neo Sealer AT-S is a sealant for spot welding in car manufacturing. Major vehicle manufacturers requested us to develop a sealant for joints of steel plates to prevent air, dust, and water invasion.

Through a laborious process of trial and error, we have created this product.



Received the "Kobe City Environmental Encouragement Award" in FY 2019.

We use returnable materials for product containers to reduce waste. In addition, we take prevention measures against global warming and conduct in-house environmental education. These activities were regarded as a great contribution to reduce environmental impact.



## [Corporate History]

- 1961 Developed "Neo Sealer" for refrigerators
- 1967 Established Kinki Kasei Kogyo Co., Ltd.
- 1983 Developed "Tail Sealer," a water-blocking sealant for shield machines
- 1984 Relocated the main plant and laboratory to Seishin Industrial Park
- 1987 Developed "Neo Mole," a lubricant for the jacking method
- 1988 Introduced "Tail Sealer" to the construction site of the Channel Tunnel
- 1990 Changed the company name to Matsumura Oil Chemical Co., Ltd.

- 1992 Developed "Horidasu," mud additives for the jacking method
- 1994 Introduced "Tail Sealer" to the construction site of the Tokyo Bay Aqua Line
- 2001 Constructed building No. 3 (a warehouse and plant for processing) to increase production
- 2013 Obtained ISO9001 certification
- 2020 Opened the Ono Plant  
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