

## KORING 892-1 (1:3 concentrate)

### *Concentrate of weld separating agent*

#### **Purpose:**

KORING 892-1 is a concentrate of a high biologically degradable aqueous separating agent for welding. It also contains corrosion passivators and inhibitors effectively protecting a weld area against corrosion. The agent can also be used for long-term preservation of products against corrosion. It contains no silicones. The separating agent prevents flying metal drops from sticking to a weld and its surrounding.

These can be easily knocked down or brushed off from the surface after welding without leaving marks on a weldment. The agent is suitable for both automatic and manual welding, electric arc welding but can be used for gas welding as well.

#### **Application:**

Before being used, the agent has to be diluted in the specified ratio, i.e., 3 kg of distilled, deionised or demineralised water is added per kilogram of the separating agent.

The agent is applied to the weld area and its surrounding by spraying (manual or robotised), dipping, brushing or sponging. Remove metal drops on the weldment surface after welding by knocking, wiping using a brush or a spatula.

The separating agent also very good protects against corrosion. Therefore, it can also be used for long-term anti-corrosive protection of a product. Until it is washed away, the metal surface is protected. Corrosion inhibitors used have loss of 3 % per year when stored in a covered storage. Therefore, the product can be protected in this way up to 10 years.

The separating agent can be washed with common polar solvents such as spirit, acetone, ethyl acetate, etc. However, washing must be carried out properly. Therefore, we recommend to use clean tap water that chemically decomposes the agent within several seconds and then it can be very easily washed away.

#### **Advantages:**

- The separating agent was tested by a number of world producers of welding machines and several independent welding institutions and international producers. It was evaluated as the best separating agent on the European market.
- It contains passivators protecting a metal surface by chemical reaction.
- It contains corrosion inhibitors.
- It is nontoxic.
- It is highly biodegradable. It is degradable with tap water itself.
- It has degreasing capacities.
- It is easily washable with water.

#### **Warning:**

The agent KORING 892-1 is irritant because has degreasing capacity. Therefore, protect your hands with gloves, your eyes with goggles and your body with suitable working clothes. After your skin has been stained, wash it with clean water without using a soap after work and then apply a reparative cream. After the agent has been swallowed, do not induce vomiting, drink ample amount of clean water. After contact with eyes, rinse them with clean water and call on a doctor.

Considering that other than distilled, demineralised or deionised water decomposes the agent, it must not be used for dilution.

The separating agent must be stored in plastic containers.

Considering the content of anti-corrosive effective substances that may cause a change in the surface colour, the proving tests have to be performed before the agent is introduced into production. This in particular applies to welding of non-ferrous metals.

A decrease of concentration, i.e., an increase of a dilution ratio, of the agent leads to deterioration of end-use properties and if dilution is carried out with common water, decomposition is going to take place!

#### **Active substances:**

A mixture of esters of higher fatty acids, a benzamine inhibitor of corrosion.

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**Packaging:**

The concentrate is delivered in 1 m<sup>3</sup> IBC containers. The agent can also be delivered in a different packaging by arrangement with a customer.

**Storage:**

Store in plastic containers out of reach of radiant heat and UV radiation. Storage temperature of 4-40 °C.

**Expiration:**

2 years in a closed container.