

KORING 551 and KORING 555 *Corrosion Inhibitors for Water Systems*

General:

Contact-evaporative metal corrosion inhibitors for water systems KORING 551 and KORING 555 are white to yellowish, loose crystalline products that are highly soluble in water.

They differ from conventional vapour inhibitors (VCIs) in that, both agents have an increased ability to bond to metals, a reduced evaporation coefficient and increased solubility. Both products belong to the group of anti-corrosive agents with inhibitory effect for short to long term protection.

Due to its composition, KORING 551 is designed to protect steel water closed systems. KORING 555 contact-evaporative corrosion inhibitor has an extended corrosion protection efficiency not only for the protection of ferrous metals, but also for the protection of non-ferrous metal products and their alloys, especially copper, brass, bronze, aluminium alloys, etc. It is designed to protect circulating water systems with a variety of materials of construction. The agents are also very suitable as inhibiting additives in rinse baths after blasting, degreasing and surface passivation. They are widely used as anti-corrosive additives in water-based paints, water-based agents, for inter-operative protection and as an additive in blasting mixtures.

Methods of Application:

KORING 551 and KORING 555 metal corrosion inhibitors provide protection in a wide range of applications. It is particularly important for use as an inhibiting additive in water fillings of low-pressure hot water and cooling systems, preparation or additional treatment of inhibiting and passivation baths and rinses after alkaline degreasing, surface cleaning by blasting, protection of internal walls of storage tanks and pressure gas distribution lines, etc. If inhibitors are used as additives in paints and other water-based products, their effectiveness and dosage must be tested.

The application takes into account the inhibition coefficient guideline values according to the need for a protective effect. Typically, inhibitors are applied at a rate of 0,5 to 2 kg per 100 litres of water bath. It is recommended to use demineralised water, especially with a reduced content of chloride and sulphate ions, where pH must not be lower than 7.0.

Advantages:

Ease of application, high inhibition efficiency, simultaneous contact and evaporation effect, long-lasting protective effect, easy or no removal after protection, biodegradability, easy disposal; inhibitors are without heavy metals, chromium compounds, lead, biodegradability etc.

Packaging:

Water-soluble contact-evaporative corrosion inhibitors are supplied in PE 25 kg bags. On the customer's request, it is possible to deliver at least 5 l of the inhibitor in packages according to mutual agreement or it is possible to deliver already prepared inhibitor solutions according to the order.

Storage Life:

Storage life of products is 24 months in the original packaging in stores at temperatures from 5 °C to 40 °C without being exposed to direct sunlight.