

Trays with integrated corrosion protection

Simplified packaging process

Trays ensure damage-free transport of components in the industrial packaging process. For metal parts, additional VCI corrosion protection is necessary. Excor Korrosionsschutz-Technologien und -Produkte GmbH has now simplified this packaging process under the name Layertray: by integrating the corrosion protection directly into the tray.

For more than 30 years, Excor has been supplying the metal pro-cessing and manufacturing industry with VCI corrosion protection products made of paper, plastic and foam as complete packaging or trays. With molded nests in industrial production, these allow damage-free transport and uncomplicated loading and unloading of metal components, for example. To protect these components from corrosion, additional protection by means of a VCI dispenser or equipping the tray itself with VCI active ingredients is necessary.

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Under the name Layertray, Excor now offers an additional corrosion protection option that integrates the protection directly into the tray. This is done by means of a thin VCI film that the preformed trays are covered with. The film adapts to the contours in a form-fitting manner. With the Layertray, handling at work is significantly simplified and accelerated, because the user saves one work step: The tray no longer has to be additionally provided with VCI protection, but can be loaded directly. The layertray process is not only possible for plastic trays, but can also be used to equip workpiece carriers made of corrugated cardboard or fiber castings.



With the Layertray Excor offers a possibility to integrate the corrosion protection directly into the tray. The ideal solution for the Hatz GmbH & Co. KG (see info box).

The lamination with the VCI film acts as a barrier and takes away the corrosive effect of the paper products as well as the risk of fibre abrasion on the packaged goods. The applied film is not an obstacle to recycling. In the wet recycling process, the thin film comes off and is separated with other foreign matter contained in the waste paper and incinerated. So while the layer tray made of paper products is recyclable, the plastic trays laminated in this way are reusable.

If the protective effect of the film wears off, it can simply be renewed. The film does not have high adhesion and can easily be peeled off to recoat a tray. Excor can measure the VCI content of the film and thus determine the time for a new coating, if necessary. Thus, the layertray not only offers a cost advantage, but is also ecologically sustainable. This innovation from Excor is suitable for quantities of up to 25,000 units.

Application example Hatz Dieselmotoren

Excor customer: Hatz GmbH & Co. KG, manufacturer of 1- to 4-cylinder diesel engines

Customer: american manufacturer of luxury motor yachts

Packaged goods: spare parts set for wearing parts of the engine, approx. 500-1000 pieces/year

Packaging components: Layertray (receptacle and lid), folding box

The engine manufacturer Hatz GmbH & Co. KG, based in Ruhstorf a. d. Rott, needed a visually high-quality packaging for a spare parts set that would also provide reliable protection against corrosion for a customer in the luxury segment. "All previous packaging solutions for the set had not appealed to our customer, who sells to an exclusive clientele. The layertray was exactly what we were looking for – a representative packaging that protects our components from damage and corrosion which is also very easy to handle," says Daniel Benz, head of quality assurance at Hatz Dieselmotoren, with satisfaction. After initial drawings and CAD drafts by Excor, the serial sample could finally go into production. All components of the packaging solution – the layer tray with lid laminated with VCI film and the folding box – come from a single source, so they do not have to be procured individually.