

Thin-film passivation

eska®phor Z 1300-1



Product characteristics and performance features

- Conversion layer-forming passivating agent
- Excellent primer for coatings
- Excellent corrosion protection properties
- Automatic dosing possible
- Low sludge accumulation
- multi-metal capable



Application range

eska®phor Z 1300-1 is used in spraying systems with at least 5 zones for the pre-treatment of steel and iron parts, aluminium and zinc prior to subsequent coating. Slightly golden to bluish iridescent layers are formed on steel and iron parts.

After passivation, the component surface should be rinsed again with deionised water. The exact process conditions are determined depending on the system and material. A possible application without rinsing (no-rinse) must be checked.

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Advantages and benefits

- Advantage: Modern conversion layer-forming passivation system
Benefits: Improves adhesion values and corrosion protection during painting
- Advantage: Low application concentration and temperature
Benefits: Particularly economical due to product and energy savings
- Advantage: Multi-metal capable and multifunctionally applicable
Benefits: Economical, as process-adapted product dosing is possible



Technical data

- Density (20°C): approx. 1.03 g/cm³
 pH value (1% solution): approx. 3.0



Preparation and operating data

- Concentration: 0.5 - 2.0 % by volume
 Bath temperature: 20 - 40 °C
 Treatment time: 20 - 150 s
 Spray pressure: 1 - 2 bar
 pH value: 4.5 - 5.5
 Bath monitoring: 100 ml bath solution
 Phenolphthalein indicator solution (colourless-pink; pH 8.5)
 0.1 N sodium hydroxide solution Standard solution
 Factor deionised water 0.14

Concentration (vol. %) = Consumption of measured solution (ml) x factor
 (see also titration instructions eska®phor products for bath monitoring)

The preparation must be carried out in fully demineralised water (demineralised water).

The pH value is below the target range for the new preparation. In order to achieve the above-mentioned optimum working range, the pH toner eska®phor P 402 S must be added to the bath solution in stages. The pH value must be monitored regularly using suitable equipment, e.g. an electric pH meter.



Supplementary documents

Slight variations in colour and appearance between individual product batches have no influence on the quality and functionality of the product. The information is based on technical knowledge and experience.

For information on the safe handling of our product, please refer to the corresponding safety data sheet.

The above information corresponds to the current state of science and technology for the relevant products. Our advice does not release you from the necessity to check our products for suitability for use in your company and for the special requirements there.
Important note: Our products are intended exclusively for industrial use.

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