iChem solutions based on partnership

Thin-film passivation

eska®phor Z 2000 C

Product characteristics and performance features

- Zirconium phosphating
- Conversion layer forming pretreatment
- Low sludge formation
- Excellent primer for coatings
- Excellent corrosion protection properties
- multi-metal capable

Application range

eska®phor Z 2000 C is used in multi-chamber spraying systems for the pre-treatment of iron, aluminium and zinc prior to subsequent coating.
Depending on the level of soiling, a suitable degreasing booster from our eska® phor EM range can be added to the bath.
After pre-treatment, the workpiece surface is rinsed with clear, cold water to remove adhering product residues from the surface. Depending on the requirements of the workpiece surface, rinse with fresh water or demineralised water. The surface is then dried with hot air (100 - 120 °C). If no drying is available, a further hot rinsing bath must be installed downstream so that the workpieces dry by their own heat after removal. Drying can be additionally supported by blowing off with air.

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eska®phor Z 2000 C

Advantages and benefits

Advantage: Modern conversion layer-forming passivation system
Benefits: Improves adhesion values and corrosion protection during painting

Advantage: Use of pH-controlled dosing possible
Benefits: Reduced control effort and product consumption. Stable process

Technical data

Density (20°C):	approx. 1.04 g/cm³
pH value (1% solution):	approx. 2.5

Preparation and operating data

Concentration:	1.0 - 2.0 % by volume
Bath temperature:	35 - 45 °C (max. 50 °C)
Treatment time:	1 - 3 min
Injection pressure:	1 - 2 bar
pH value:	5.0 - 5.5
Conductivity:	< 3,000 µS/cm

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.
The operating concentration can increase to up to 5% by volume during use. Depending on the range of parts to be treated or if no deionised water is available for the bath preparation, it may be advisable to increase the preparation concentration to up to 4.5% by volume.

Bath monitoring:	10 ml bath solution Phenolphthalein indicator solution (colourless-pink; pH 8.5) 0.1 N sodium hydroxide solution Standard solution Factor deionised water 0.85

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

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.

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