

25.07.2014

RIAG Seal 980

Silicium based sealer

RIAG Seal 980 is a thin, water-based sealing agent on the basis of silicium.

Properties

- Thin layers (about 1 µm)
- High corrosion resistance
- Scratch resistant
- Applicable in barrel or rack
- Colourable (yellow, red, blue)

Make up

	Barrel	Rack
RIAG Seal 980 Additive (density = 1.10 g/mL)	500 – 1000 mL/L	200 – 350 mL/L
Butyl glycol (density = 0.90 g/mL)	0 – 200 mL/L	100 – 400 mL/L
Dipping time	10 – 20 s	10 – 20 s

The rack application is used with a drip time of 20 – 30 seconds or by blowing off procedure before drying. At the barrel application a spin-dry process is used before hardening the layer.

Procedure for a make up

If necessary, put butyl glycol in the process tank, add **RIAG Seal 980 Additive** and if necessary the required quantity water and mix well. Now the bath is ready for operation.

Effluent control and Safety considerations

Protective gear such as face shields and gloves should be worn during bath make up and operation. Chemicals shall not be stored below 10 °C. Spent solution has to be treated and discharged according to local wastewater laws.

Operating conditions

Temperature:	18 – 30 °C (room temperature)
Time:	10 – 20 sec.
pH-Value:	4 – 6 Frequent control is normally not necessary
Drying:	120 – 160 °C during 20 minutes

Process sequence

1. Zinc or zinc-nickel plating
2. Water rinse (double)
3. Activation for zinc only in nitric acid (0.3 – 1.0 %)
4. Water rinse
5. **RIAG Pass**
6. DI water rinse (double)
7. Dry or blow liquid off
8. **RIAG Seal 980**
9. Drying at 120 – 160 °C during 20 minutes

Analysis

RIAG Seal 980 Additive can be analyzed easily gravimetrically. A scaled sample is dried at 180 °C to a constant weight (approximately 15 minutes) and scaled again. The undiluted product should have a residue of 17 – 19 %.

Consumption: approx. 1 kg **RIAG Seal 980 Additive** for each 50 m².

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