



# APPLICATION DATA SHEET

## BLACKFAST 973 CHROMIUM FREE SEALANT

USE:

Blackfast 973 strength litres/1000 lts bath solution	% Volume	
5	0.5	For passivation
10	1.0	Ahead of paint systems
20	2.0	For rust inhibition
30	3.0	After pickling and paint
40	4.0	Stripping
50	5.0	

APPLICATION:

Blackfast 973 is a completely chromium free sealant designed to be added to the final rinse after both zinc, iron and zirconium phosphating.

Blackfast 973 greatly enhances the paint adhesion and corrosion protection of components.

Blackfast 973 avoids the toxicity problems associated with chrome containing final rinse additives, without sacrificing performance.

Blackfast 973 is non-toxic and will not affect the BOD or COD in effluent treatment.

Blackfast 973 is suitable for both spray and immersion application.

TESTING AND  
CONTROL

The strength of the working solution should be tested at regular intervals and replenished as shown above.

Take a 45ml representative sample of the working solution and add 5-10 drops of Bromo Phenol Blue indicator and titrate with 0.1N Hydrochloric Acid until the colour in the beaker changes from purple to yellow.

The strength of the working solution in litres/1000 litres of bath solution is given by the number of mls of Hydrochloric Acid used in the titration.

TANK  
MATERIAL

Tanks and heating equipment may be fabricated from 6mm thick mild steel, double welded inside and out, although for maximum service life, grade 316 stainless steel is to be preferred. The spray nozzle should be constructed from either stainless steel or plastic. Non-ferrous metals must not be used for equipment that will come into contact with the solution. Efficient extraction is required to remove steam and spray mist. There should be adequate clearance between heaters and the bottom of the tank to allow sludge to collect undisturbed. Automated water top up or a solution level alarm is recommended to avoid excessive concentration fluctuations due to loss of water through evaporation.

PRODUCT SAFETY  
DATA SHEET:

A safety data sheet is available.

Blackfast 973 is part of the Blackfast range of products for the treatment of iron, steel and aluminium at low temperatures.

Blackfast Chemicals continues to improve the quality and performance of its range of products and reserves the right to modify product formulations without prior notice.

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