



Confederate Chemicals Ltd

Mochdre Industrial Estate Newtown Powys SY16 4LE

Emerg. tel: 01686 627158

w: www.confederatechemicals.com w: www.paintstrip.com



TECHNICAL DATA SHEET

Superfos FD

1. USE OF PRODUCT

A liquid iron phosphating solution used in conjunction to clean light soiling and deposit a lightweight conversion coating on steel and mixed metals prior to painting. If extra detergency is required, it should be used in conjunction with Superfos Additive.

2. TYPICAL PROCESS LINE

Stage No.	Process Description	Process Time (mins)	Strength (concentration)	Temperature °C
1 dip	Superfos FD			40 - 65°C
2 spray	Superfos Additive			
	Caustic Soda			
3				

For a Safety Data Sheet on this product please contact Confederate Chemicals by telephone, or by e-mail at lab@confederatechemicals.co.uk

3. OPERATING THE CHEMICAL

3.1 Chemicals Required

Superfos FD

For the control of the process, testing equipment will be required

3.2 Make Up Procedure





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To make up the solution carry out the following instructions:

Determine the working volume of the tank or refer to the relevant Plant Information & Control Summary Sheet. Fill the tank three-quarters full with clean water and begin heating to operating temperature. For each 1000 litres of working solution add:

Product Name	Quantity
SUPERFOS FD	

3.2 Testing and Control

Total acid: Titrate a 10ml sample of the working solution against 0.1 Sodium Hydroxide to the phenolphthalein end point (colourless to pink). Each ml of Sodium Hydroxide required is considered 1 point. The addition of 2.9 litres SUPERFOS FD per 1000 litres will raise the concentration 1 point.

Free Acid: Repeat the total acid titration using Bromocresol Green. A correctly balanced 5 point solution will titrate to 0.5 to 0.75mls. The addition of 120mls SUPER ACIDET PLF will raise the free acidity by 0.1 points.

pH (spray systems): If the pH of the SUPERFOS FD solution varies outside the recommended range, it may be corrected by making very small additions of either Caustic Soda solution (to raise the pH) or Super Acidet PLF (to lower it).

Replenishment

For each % below the recommended figure add for each 1000 litres of bath solution:

Product Name	Quantity

4. HANDLING OF WORK

5. STORAGE AND HANDLING

6. EQUIPMENT





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Heavy gauge mild steel is acceptable to contain SUPERFOS FD solutions although stainless steel is preferable. Pumps, valves, jets etc. must be acid resistant.

7. MAINTAINANCE

8. HEALTH AND SAFETY

The solution is strongly acidic and may be hot, therefore care must be taken when operating the process to avoid splashing. The use of protective clothing, including eye or face protection is to be recommended. If contact with the eyes occur, irrigate with copious quantities of clean water and seek medical attention. Eyewash facilities should be available near the plant in case of accident.

A good standard of industrial hygiene should be observed when handling chemicals or operating the process. Do not smoke, eat or drink when handling chemicals and ensure that PPE is replaced, maintained or regularly laundered as recommended.

Further information, including First Aid details, as required by COSHH Regulations will be found in the relevant Material Safety Data Sheet.

