

Phenshield 3050

Primer



DESCRIPTION

Two component solvented modified phenolic, matt finished, pigmented primer coat

INTENDED USE

A high build heavy duty primer that has excellent adhesion to steel. It has excellent resistance to a wide range of solvents, alkalis & acid vapours when over coated with **Speccoats Phenshield 3050 Finish**. This system is used as a protective coating for steel and concrete surfaces in chemical processing plants, pulp and paper mills and for the protection of structural steel against severe splash, spillage and fume conditions. It is not recommended for immersion or continuous spillage of hot or concentrated acids

PRODUCT FEATURES

- Excellent adhesion to steel surfaces
- Cures to a hard matt surface that can be over coated within 16 hours
- Suitable for damp, chemical environments such as pulp and paper mills.
- When over coated by two coats of **Phenshield 3050 Finish**, the system provides excellent protection to surfaces exposed to chemical environments.

LIMITATIONS

- The product will chalk on the surface when exposed to sunlight
- Due to rapid cross linking, if the recommended overcoating interval is exceeded, sanding of the surface is mandatory.
- Not recommended for immersion service or continuous spillage of hot or concentrated acids.
- Colours will tend to chalk and discolour in direct sunlight.

STANDARD COLOUR AVAILABILITY

Beige



PRODUCT INFORMATION

- **Number of Components:** 2
- **Mixing Volume Ratio:** 4 to 1
- **Volume Solids:** 64% +/- 2%
- **Pot Life:** 3 hours @ 20°C
- **Film Thickness:** Wet - 156-187µm
Dry - 100-120µm
- **Spreading Rate:** 7m² /lt @100µm DFT
- **Temperature Resistance:** Dry 93°C

CHEMICAL RESISTANCE GUIDE

Exposure	Splash and spillage	Fumes
Acids	Very good	Excellent
Alkalis	Excellent	Excellent
Solvents	Excellent	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

PACKAGING

- 5lt kits

SURFACE PREPARATION

Steel Surfaces

- Degrease surfaces with **Speccoats Hydrosolve** followed by a high pressure water rinse
- Grind and fettle weld spatter, protrusions & sharp edges to a minimum radius of 2mm
- Abrasive blast clean to grade SA 2 ½ of ISO 8501-1 with a blast profile 40- 50µm
- Alternatively mechanically abrade the surface using grinding discs to achieve a similar profile

Concrete Surfaces

- All laitance must be removed using Speccoats Concrete Etch & Neutralizer or by high pressure water blasting or dry abrasive blasting
- Fill all omegas and holes with approved underwater grade epoxy fillers, **Speccoats Scraper Coat or Patching Compound**
- Surfaces should then be sealed with **Speccoats Phenshield Primer**



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APPLICATION

Mixing – Two Components

- Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Stir again immediately prior to use

Application – Equipment & Methods

 Brushes	Suitable for touch up only
 Rollers	Suitable for touch up only
 Airless Spray	Pump Ratio - 30 to 1 Min Nozzle Orifice - 19 to 21 Thou Tip Pressure - 145 Bar Min
 Conventional Spray	<ul style="list-style-type: none"> Air Assisted Airless Pressure Pot - Pressure Feed Gun Gravity Feed Gun Various Nozzle sets are available to suit the guns

Thinning

- Thin up to 25% with **Speccoats SA65 Thinners**

Cleaner

- Cleaning is done with **Speccoats SA65 Thinners**

APPLICATION ENVIROMENT

	Material Temp.	Surface Temp.	Ambient Temp.	Relative Humidity
Min	13°C	10°C*	10°C	0%
Max	30°C	45°C	40°C	90%
*or 3° above the dew point				

DRYING TIME

Touch dry	Over-coating interval		Maximum overcoating time	Full Cure
	°C	hours	hours	days
3 hours at 25°C for 100µm DFT at 65% RH	10	36	60	12
	15	24	48	8
	25	16	36	4
	30	10	24	2

STORAGE AND HANDLING

Storage - Store at temperatures between 5°C and 40°C, away from direct sunlight, open flames or sparks

Flash Point - 6°C

Shelf Life - Minimum 1 year when packed in original containers

HEALTH AND SAFETY

- Flammable – keep away from sources of ignition – No smoking!!!
- Adequate ventilation should be provided during use
- Avoid contact with the skin by using gloves, barrier creams and face mask
- If the product comes into contact with the skin, wash immediately with lukewarm water and soap, if the eyes are affected flush with water of diluted boric acid solution and seek medical attention immediately
- Refer to Material Safety Data Sheet (MSDS)

DISCLAIMER

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product. **ISSUE DATE 28/10/2010**