

## C/S Wallsheen™

### System Technical Data Sheet

#### SYSTEM DESCRIPTION

Wallsheen™ is a durable, medium solids and build water based surface coating system. It controls the growth and spread of microbes by incorporating a cocktail of non-leaching anti-microbial additives. The system cures with a low odour and is available in an Eggshell finish. It is easy to clean and resistant to mild cleaning agents and abrasives.

Wallsheen™ will allow water to permeate through the film rather than cause blisters. It is suitable for interior use and is colour and UV stable.

#### MAIN AREAS OF USE

- Reception areas and light/medium use circulation areas in hospitals, schools, offices, retail areas, leisure centres etc.
- Healthcare – wards, cat. 1 ACDP clean rooms/laboratories, general storage areas
- Food and pharmaceutical process areas requiring finishes with medium chemical resistance
- Schools - classrooms
- Kitchens (indirect steam), cafeterias

#### TEST DATA

##### FIRE RESISTANCE

BS 476 part 7 Class 1  
BS 476 part 6 Designated 0

SCRATCH RESISTANCE (BS 3900-E18:1997)  
1H

SCRUB RESISTANCE (ASTM D2486)  
1200 cycles

##### CHEMICAL RESISTANCE

- 5% solution of Sodium Hydroxide
  - 5% solution of Potassium Hydroxide
  - 5% solution of Sodium Hypochlorite
  - 15% solution of Mild Anionic Detergent
  - 15% solution of Mild Cationic Detergent
- all failed to cause breakdown

##### BACTERIAL RESISTANCE (JIS Z 2801)

- Bacillus subtilis
- Escherichia coli
- Pseudomonas aeruginosa
- Salmonella typhimurium
- Staphylococcus aureus (Oxford and Anti-biotic Resistant strain)
- Enterococcus faecalis
- Corynebacterium diphtheriae
- Shigella sonnei

##### FUNGAL RESISTANCE (JIS Z 2801)

- Saccharomyces sp (a)
- Saccharomyces sp (b)
- Ascomycetes sp (a)
- Ascomycetes sp (b)
- Ascomycetes sp (c)
- Ascomycetes sp (d)
- Penicillium chrysogenum
- Trichoderma harziamen
- Saccharomyces cerevisiae
- Penicillium notatum
- Aspergillus niger

ADHESION STRENGTH (BS EN 24624:1993)  
1.1Nmm<sup>-2</sup>

APPROXIMATE SOLIDS CONTENT (BS 3900)  
43.0% ±0.5% by volume  
52.0% ±0.5% by weight

SPECIFIC GRAVITY (BS 3900-A19:1998; ISO 2811; ASTM D1475)  
1.23 ±0.05

GLOSS UNITS (ASTM D523)  
Eggshell 20-35 at 60° viewing angle

VOC LEVEL OF THE TOPCOAT  
15-21 g/ltr

#### COLOURS AND FINISHES

##### COLOURS

The system can be supplied in any BS 4800, RAL Classic and NCS 2nd Series as standard. Colours can also be matched to a customers requirement but will take an extended time over standard colours (please contact our Customer Service Team for details).

##### AVAILABLE FINISHES

Wallsheen™ is available in an Eggshell finish.

## SUBSTRATE PREPARATION AND APPLICATION OF PRIMERS

### SUBSTRATE MOISTURE & APPLICATION CONDITIONS

Substrate moisture should not exceed 12 units as measured on a Protimeter (or equivalent device) on the wood scale.

Do not apply when the substrate temperature is below 5°C. Coating conditions must remain at least 3°C above the dew point.

### APPLICATION OF PRIMERS

All substrates that exhibit signs of bacteria or fungal growth prior to application must be treated with C/S Fungiclense™.

#### Plaster, Plasterboard, Cementitious Screeds, Brickwork/Blockwork and Non-Vibrated Concrete (excluding wet areas)

Ensure substrate is free from oil, grease and laitance. Apply one coat of C/S White Primer™ (Single Pack) using a good quality long pile synthetic roller sleeve, cutting in with a good quality brush.

In the areas where there may be raised fibres due to filling etc. back roll to seal fibres down.

In areas of high absorption/friable surfaces a second coat may be required.

Allow to dry (2-4 hours @ 20°C @ 60% RH) before applying the Wallsheen™ system.

Note: C/S Penetration Primer™ is recommended for use on Plaster/Plasterboard when fibreglass reinforced system is applied. For further details refer to application instructions for fibreglass systems (FG Light/FG Decorative).

#### Previously decorated surfaces

Clean down surface using C/S Wallclenze™, removing any loose or flaky coating.

Fill any areas where necessary spot prime using C/S White Primer™ (see above) and continue with Wallsheen™ system.

## SYSTEM APPLICATION

### C/S WALLSHEEN™ UNDERCOAT/TOPCOAT

Two coats of Wallsheen™ (Single Pack) are applied onto the specified primer using Brush and Roller (long pile roller). Allow to dry (4-6 hours @ 20°C @ 60% RH) before applying second coat.

Please note that 3 coats of Wallsheen™ may be required when applying the system over non-grey plasterboard.

If spray application is required please contact our Technical Department.

ALWAYS SAND LIGHTLY BETWEEN COATS.

Note: Application instructions will be issued with the product. To request a copy please call +44 (0)1296 652800, or send an e-mail to info@c-sgroup.co.uk. Copies can also be downloaded from our website www.c-sgroup.co.uk.

## OPTIONAL TREATMENTS

### FIBREGLASS REINFORCEMENT (FG)

For decoration and added durability light or decorative fibreglass reinforcement can be incorporated into Wallsheen™.

**Light reinforcement (FG Light)** - a lightweight fibreglass tissue (50 g/m<sup>2</sup>), applied in a single layer. It is particularly useful where the existing wall surface may incorporate old minor cracking or unevenness.

**Decorative fibreglass reinforcement (FG Decorative)** - a lightweight fibreglass available in six decorative patterns and applied in a single layer.

## COVERAGE AND PACK SIZES

Product	Coverage Rates (per coat)	Pack Sizes (ltr)	Recommended Build Thickness (per coat)	
			Wet Film	Dry Film
White Primer	7-9 m <sup>2</sup> /ltr	5 and 20 (Single Pack)	120µ to 140µ	30µ to 40µ
Penetration Primer	7-9 m <sup>2</sup> /ltr	5 and 20 (Single Pack)	120µ to 140µ	30µ to 40µ
Wallsheen™ - Eggshell	7-9 m <sup>2</sup> /ltr	5 and 15 (Single Pack)	140µ to 160µ	80µ to 95µ

## SHELF LIFE AND STORAGE

### STORAGE

Always store out of sunlight at temperatures between 5°C and 35°C

### SHELF LIFE

2 years from manufacture when stored correctly and unopened.

## OPERATIONAL TEMPERATURE

Wallsheen™ once applied and cured is stable in temperatures between -5°C and 60°C.

## HEALTH AND SAFETY

Always read the Material Safety Data Sheets of the products before commencing any application.

To request MSDS please call +44 (0)1296 652800 or send an e-mail to [info@c-sgroup.co.uk](mailto:info@c-sgroup.co.uk).

## OTHER INFORMATION

### OTHER SUPPORTING INFORMATION AVAILABLE

- C/S Wallglaze® brochure
- NBS Style Specification Clauses
- BS 4800 Colour Card
- C/S Wallglaze® Cleaning and Maintenance
- Product Data Sheets, Application Instructions and Material Safety Data Sheets