

## PRODUCT ADVICE SHEET

### Casein Distemper

All Farrow & Ball paints are water based, making them low-odour, low-VOC (Volatile Organic Compounds), and quick to dry. They also score the highest possible A+ rating for indoor air quality in accordance with the independently conducted French Indoor Air Quality Decree N° 2011-321 – Arrêté April 2011.

#### Product Overview:

Carefully sourced casein resins with unique open polymers let moisture pass through this flat matt finish, allowing interior plaster walls and ceilings to 'breathe'. Not washable or wipeable.

#### Not Suitable For:

Kitchens, bathrooms and other areas of high wear.

#### Available Tin Sizes: 2.5 Litre 5 Litre

For colour availability, please visit [farrow-ball.com](http://farrow-ball.com). Available to order direct from [farrow-ball.com](http://farrow-ball.com), through our Customer Services team at [sales@farrow-ball.com](mailto:sales@farrow-ball.com) or on +44 (0) 1202 876141, and in showrooms and selected stockists internationally.

#### Before You Begin Painting:

To get the best out of Farrow & Ball finishes, it's important to make sure your surface is correctly prepared. Poor preparation is the main cause of most paint problems. Surfaces must be in a sound condition, clean, dry and free from any surface contamination, such as dirt, dust, grease, mould and loose/ friable material. The surface should also be lightly sanded to create a slight texture for better adhesion, and then any resulting dust wiped away.

#### Surface Imperfections:

If you have any surface imperfections, no matter how small, they need to be removed before paint application, as the colour and sheen level will only highlight, imperfections, the higher the sheen level the more they are highlighted. Imperfections will look less apparent if a matt finish is applied, but they will still be there and noticeable in different light conditions. Where a Level 5 finish (the best possible finish) is needed, you should fill, flat and repaint several times. This means after the mist coat or first coat has been applied, you use an appropriate filler on imperfections or seams, lightly sand this down to smooth and then paint on a layer of topcoat. You should repeat this process again until no imperfections are visible. This is typically needed for plasterboard or high gloss finishes where lighting conditions can highlight any imperfections. Remember the final finishing coat due to its flow and levelling characteristics will only reflect the standard of the underlying prepared surface, if primers and undercoats are applied with imperfections they too will need to be flatted before finished topcoats are applied as once again, they will be highlighted.

#### Health & Safety Advice:

Safety data sheet available on request. Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Do not get in eyes, on skin, or on clothing. Ensure good ventilation during application and drying.

#### Colour Accuracy:

Check for colour accuracy prior to use as Farrow & Ball will not be liable for decorating costs caused as a result of an incorrect colour being applied. When more than one tin of the same colour is to be used ensure that batch numbers are identical or intermix before use. Stir thoroughly before use. Please note that different application tools (e.g. brush, roller, spray) may give a slight visual difference in the final colour. When colour drenching a room in the same colour, best results can be achieved by using the same finish on all surfaces. Dead Flat, Modern Emulsion, Flat Eggshell and Modern Eggshell are suitable finishes for colour drenching across multiple surfaces.

### Cleaning Prior to Painting:

For best results, make sure your surface, tools and product are clean before you begin. For most surfaces we would recommend using a dilute Sugar Soap solution following the manufacturer's instructions. We do not recommend using solvent-based cleaning products or strong alkaline solutions as these can impact adhesion. After cleaning, wipe the surface with a damp cloth and allow to dry. When opening a new tin of paint, don't allow any dust or debris to fall from the lid into the contents. If you're reusing a tin of paint, we recommend straining it. Make sure your tools are clean, including your stirrer, and we recommend dampening your brush or roller then removing excess water before loading with paint.

### Painting with Casein Distemper:

Casein Distemper requires no primer & undercoat. Ensure all surfaces are sound, clean, dry and free from dirt, grease and other contamination. Flaking or peeling may occur if painting over weak paint layers. New surfaces – Newly lime plastered surfaces should be fully carbonated and cured for 4-5 weeks prior to application. Previously painted surfaces - can be applied directly to surfaces previously painted with Farrow & Ball Casein Distemper. It is not suitable for surfaces painted with other finishes, these need to be removed prior to painting. Plaster walls that have salt problems will stain and blister subsequent paint coatings, using Farrow & Ball Casein Distemper will allow the walls to breathe and enable the problem to be monitored. Avoid applying to areas with running condensation. Structurally damaged surfaces – any cracked or loose plaster must be repaired or filled with an appropriate plaster/filler. Farrow & Ball do not recommend the use of modern fillers on lime based substrates as they will trap moisture and are too hard, leading to cracking and uneven porosity when painting. Considerations: Due to the traditional nature of this distemper, touching in should be avoided. Due to the traditional nature of this finish, Farrow & Ball Casein Distemper will not accept subsequent layers of modern paints. Casein Distemper is made in the traditional manner using fine pigments and will inevitably have some small variations in colour. The porosity and moisture content of the surface it is applied to will affect the colour and can lead to changes in tone. For substrates of varying or high porosity, dilution with water may be required to provide good flow and minimise variations in colour and tone. Always stir Casein Distemper before adding water. Apply using a brush. This product is unstable if applied too thickly.

### How to Apply Paint to Walls by Brush:

Stir thoroughly before use. Ensure all surfaces are sound, clean, dry and free from dirt, grease and other contamination. Please note that flaking or peeling may occur if you paint over weak paint layers - to avoid this sand back any previous weak paint layers before you start painting. If the wall is uneven or highly porous then apply a diluted coat of your chosen colour (dilute with approximately 10% of water and apply as a 'mist' coat). Using a fine-tipped synthetic bristled brush, apply the paint in a vertical direction then spread the paint out evenly in a horizontal direction. On application of the final coat lay off the paint in a single direction to ensure that any brush marks and brush patterning effects (sometimes visible in certain lighting conditions) are minimised.

### How to Apply Paint to Walls by Roller:

We do not recommend applying Casein Distemper by roller to large areas such as walls and ceilings as a slight surface texture (stippling) may be visible.

### Painting Lime Walls with Casein Distemper:

Stir thoroughly before use. Ensure all surfaces are sound, clean, dry and free from dirt, grease and other contamination. Please note that flaking or peeling may occur if you paint over weak paint layers - to avoid this sand back any previous weak paint layers before you start painting. If the wall is uneven or highly porous then apply a diluted coat of your chosen colour (dilute with approximately 10% of water and apply as a 'mist' coat). Using a fine-tipped synthetic bristled brush, apply the Casein Distemper in a vertical direction then spread out evenly in a horizontal direction. On application of the final coat lay off the Casein Distemper in a single direction to ensure that any brush marks and brush patterning effects (sometimes visible in certain lighting conditions) are minimised. Lime renders can vary dramatically in porosity, leading to patching, this is more pronounced when using darker colours. When using Farrow & Ball Casein Distemper and other and Farrow & Ball modern finishes within the same property, there will be a noticeable difference in both texture and colour.

### Spray Settings:

We do not recommend spray application for large areas such as walls & ceilings.

### Other Product Applications:

If you wish to use Farrow & Ball products for any applications which are not featured here, please contact Customer Services for advice on +44 (0) 1202 876141 or email [customer.services@farrow-ball.com](mailto:customer.services@farrow-ball.com). Please note that calls may be recorded for training purposes.

### Storage Advice:

This product is water based and should be protected from frost and extreme temperatures. We recommend using within 6 months of purchase and are unable to accept responsibility for the deterioration of contents or packaging after this date. This product contains preservatives to protect from spoilage under normal conditions. To minimise contamination and provide maximum shelf life we recommend that the product is decanted into a clean paint kettle before use and all tools are thoroughly cleaned before and after each use. Repeated opening and use can increase the risk of microbial contamination; therefore we recommend keeping this to a minimum to maximise the shelf life of the product.

### Water Contact:

To extend the service life of this finish, standing surface water should not be allowed to pool on horizontal surfaces.

### Environmental & Disposal Advice:

Do not flush paint down the drain, including when cleaning painting tools. Dispose of contents/container to comply with local regulations.

### Clean Up:

Remove as much product as possible from brushes. Clean brushes with warm soapy water.

### Cleaning:

Casein Distemper is not washable or wipeable. Please note that very matt finish of this paint will mean that some colours will become marked or scuffed when washed. For areas of high wear consider using Farrow & Ball Modern Emulsion.

### Picture Framing:

As Casein Distemper has a matt finish, care should be taken when painting darker shades of colour. Always keep a wet edge while painting as losing the wet edge during application can lead to a common decorating problem known as "Flashing" (a halo effect where two edges of paint meet).

### Painting Damp Cellars/Basements:

Cellars/ basements often become damp because they sit below the water table and have poor air circulation. You can reduce dampness in walls by using breathable building materials such as lime plaster, which may be coated with breathable paints such as Farrow & Ball Casein Distemper, Limewash or Estate® Emulsion. Estate® Emulsion should not be used on surfaces with a pH greater than 10. This approach allows moisture to naturally pass through the surface of the wall. As a result, breathable paints won't stop water stains appearing on the dried paint film but will be more suitable than modern finishes.

## Advice for Repairing Damage and Touching In:

To achieve the best results, we recommend applying a coat of paint over the entire wall or walls, using the same batch of paint you originally carried the work out with. This best practice will avoid any noticeable variation in colour or finish. If your paintwork becomes damaged or marked, you may need to repaint. If you do choose to touch-in to repair damage, the following recommendations will help you achieve the optimum finish.

1. Always aim to use the same batch of paint. If you use a different batch, although we control colour to tight specifications, you may observe slight colour and sheen variations. If you are unable to use the same batch of paint we recommend that you apply a single coat of a different paint batch to an entire wall as any slight variations will be much less noticeable when observing from wall to wall.
2. Always use the same preparation techniques when you make any repairs as you used when you originally painted the wall. It may not always be possible to achieve a perfectly consistent finish – if for example you have used filler which has a different texture and absorbency to the rest of the wall, this may cause a slightly patchy finish.
3. Always use the same application tool and method as when you originally painted this wall. Ensure that the edges of the touched in paint are blended in “feathered” to make the transition between old and new paint areas less noticeable.
4. Over time the colour of the paint, whether on the wall or in the tin, may slightly alter. Therefore the newer the paintwork is, the better the finish you will achieve by touching-in.

Please note that when touching in the darker the colour and higher the sheen the more difficult it will be to achieve a uniform finish compared to lighter coloured, lower sheen paints.

## Technical Information:

Formulation: A water based dispersion of pigments in a casein based binder.

Do not paint in temperatures below 10°C or in excessive heat above 30°C.

Coverage Rate (m<sup>2</sup>/l per coat): Up to 13

Drying Time: Dry in 2 hours.

Typical Recoat Time: Recoat after 4 hours

Sheen Level: 0.02

Wet Film Thickness: 80 - 120 µm

Recommended Number of Coats: 2\*

\*Darker/stronger colours may require additional coats. Please note: The drying and recoat times provided are based on applying paint in normal conditions - drying times may be longer in cooler and/or higher humidity environments.

Darker colors may take longer to dry.

Density: 1.2 - 1.4 g/cc

Application Humidity: < 80 % RH

Substrate Moisture Content: Plaster Walls & Ceilings = < 0.5 %

Substrate pH: Up to 14

Wet Abrasion Class: No Classification

## VOC Content Information:

EU limit value for this product (cat. A/[a]): 30g/l (2010). This product contains max 1 g/l VOC.



## Liquid water permeability according to DIN EN 1062-3 (w<sub>24</sub> [kg/m<sup>2</sup>√24h]):

1.41 (Class I, limit >0.5). This is the volume of water absorbed into a 1m<sup>2</sup> area through the paint surface within a 24 hour period. The lower the w<sub>24</sub> value, the more waterproof the paint film. Paint water absorption is class rated, from Class I to Class III. Class I in this instance denotes a low waterproof rating.

## Water-vapour transmission rate (Permeability) according to DIN EN ISO 7783-2 (sd [m]):

0.008 (Class I, limit <0.14). This is the resistance of the paint film to water vapour expressed as the equivalent thickness of air in metres. The lower the sd value the more breathable the paint film. Paint breathability is class rated, from Class I to Class III. Class I in this instance denotes the highest level of breathability. We are pleased to confirm that Farrow & Ball Casein Distemper has the highest rating - Class I (High).

**Contact Us:**

For advice on colours, paint finishes or wallpaper our customer services team is on hand to help you, just call +44 (0) 1202 876141, email [sales@farrow-ball.com](mailto:sales@farrow-ball.com), or write to us at Farrow & Ball, Uddens Estate, Wimborne, Dorset, BH21 7NL, UK. Please note that calls may be recorded for training purposes. Imported in EU by Farrow & Ball, Kaiserstraße 25, Frankfurt am Main, Deutschland, +49 (0) 69 2424 6269.

**Disclaimer:**

The information given in these specification sheets and technical advice - whether verbal, in writing or by way of trials - is for guidance and is given in good faith but without warranty, since skill of application and site conditions are beyond our control. For further information please contact our Customer Services Department. We can accept no liability for the performance of the products arising out of such use, beyond the value of the goods delivered by us. This does not affect your statutory rights.

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