



Nutshell Natural Paints Ltd.
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NUTSHELL Casein Emulsion

Revision: 1.1 2010-01-25

Product	This is a water based, white emulsion paint for interior use on concrete, plaster, plasterboard, mineral surfaces and wood. It is easy to work with, and allows for splatter free application. The finish is white, breathable and matt. It is best used with NUTSHELL Earth & Mineral Pigments. (For a white finish we recommend the use of NUTSHELL Eco Emulsion).
Ingredients	NUTSHELL Casein Emulsion contains: water, earth pigments, chalk, titanium dioxide, talcum, castor oil, soya oil, plant resins, casein*, cellulose, potash, soya lecithin, and food grade preservative. It contains no formaldehyde, petrochemicals or VOCs. *Casein is a natural derivative of milk, used here as a binder.
Coverage	Coverage is approximately 8 - 10 sq. metres per litre. Coverage will vary considerably depending on method of application, surface roughness, weather conditions and complexity of structure.
Areas of use	Suitable for use indoors on concrete, plaster, plasterboard, all mineral surfaces, wood, wood chip paper, wallpaper etc. Vinyl silks may be painted with NUTSHELL Casein Emulsion after sanding to give a key. The paint adheres best to slightly absorbent surfaces.
Size	Available in 2.5 litre and 5 litre tins.
Preparation	All surfaces should be clean, free from grease, oil and dust. Thoroughly remove water-soluble chalk, paint or lime washes. Roughen old lacquer, vinyl silk, gloss and oil paints by light sanding. All loose and flaking paints must be removed. Very sandy or friable surfaces will require a compatible sealer (for example NUTSHELL Herb & Resin Oil). Any areas of algae or fungal growth should be treated with an acceptable fungicidal wash.
Application	Apply with a brush, roller or painting pad. Prime absorbent surfaces such as new plaster with a coat of emulsion thinned with 10% water. Always allow each coat to dry thoroughly (at least 12 hours) before applying the next one and before deciding whether another coat is necessary. On very porous, friable surfaces a compatible sealer will be required (for example NUTSHELL Herb & Resin Oil). Do not apply below 12°C
Drying Time	24 hours. Drying should not be speeded up by extra heating.
Colouring	NUTSHELL Casein Emulsion can be tinted with our many different Earth & Mineral Pigments. To mix: stir the pigment powder with a little water to form a smooth, lump free paste, cover and leave to soak, preferably overnight. Add this paste to the paint and mix thoroughly. Attention has to be paid to an even application of the paint when it has been tinted with intense colours like Iron Oxide Red, Ultramarine Blue and Green. Always mix slowly and test the colour, ideally on the surface to be painted. Due to the translucent nature of casein, it is easy to achieve a natural, rustic, irregular look. IMPORTANT For best results always use Nutshell Earth & Mineral Pigments.

Technical Information Sheet



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Thinning & Cleaning

Thin and clean with water. Clean tools with soap and water immediately after use.

Storage & Handling

Store in a cool, but definitely frost free place, in a well closed container. Always keep container closed and out of reach of children. NUTSHELL Eco Emulsion is biodegradable, but PLEASE do not pour the remainder down the drain.

Flash point: Non flammable

Product Density: 1.33 kg/litre

Shelf Life: Approximately 6 months once opened or about 9 months in unopened containers in a frost free store.

Volume Solids: 33%

Safety

- As with all paints store well away from children and pets.
- Avoid skin and eye contact. Wash eyes immediately with plenty of water if contact should occur.
- Ensure good ventilation.
- Close lid firmly after use.
- Store and use away from heat and flame.
- Do not eat in the vicinity of work.
- Wash hands after use.

The information given in this Technical Information Sheet and any 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 Nutshell Paints at the address shown above. 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.