



OPTICLEAR

DESCRIPTION

OPTICLEAR is a high solids single-pack water based polyurethane dispersion for application to concrete, other cementitious and siliceous surfaces.

OPTICLEAR contains selected ingredients which contribute to durability, flexibility, adhesion, and mar resistance resulting in an outstanding coating with performance approaching that of a conventional 2-pack solvent polyurethane, without the exposing the applicator to strong solvents.

OPTICLEAR is designed for use on new or as new decorative concrete, ceramic tiles (glazed and unglazed when prepared correctly), terracotta, sandstone, terrazzo which experience commercial type wear & tear.

UNLIKE other products in this range, OPTICLEAR will not yellow in time and consequently can be used on light coloured substrates.

OPTICLEAR is not suitable for marble and those terracotta tiles pre-sealed or previously sealed with a penetrating sealer.

OPTICLEAR is useful in the fabrication of decorative items, which can be coloured and are required to be transparent i.e. artificial stained glass, decorative mirrors etc.

KEY BENEFITS

- Water based product - environmentally responsible & easy clean-up
- Non yellowing formula
- Easy to use, with adequate wet edge
- Levels well and has good bubble release
- Excellent adhesion to both glazed and unglazed surfaces
- Chemically bonds to siliceous substrates
- Tough, durable finish
- Low odour - no petroleum solvents
- Demonstrates medium to high chemical and water resistance.

DIRECTIONS

Ensure the substrate is clean, dust, wax, and oil free, after application or laying procedures.

All concrete substrates should be acid etched and neutralised with sodium bicarbonate, prior to OPTICLEAR application.

The substrate **MUST** be neutralised and checked with the appropriate pH testing kit before applying the first coat.

Failure to take this precaution may result in de-lamination from the substrate.

The pH of the SUBSTRATE after neutralisation should be 7–8; no lower or higher.

Stir OPTICLEAR thoroughly (do not stir air into the material), apply first coat of OPTICLEAR using a lambswool APPLICATOR or LOW NAP roller.

Be sure not to work the coating excessively or apply a heavy film as this may result in air bubbles and a soft cloudy film.

After 2-3 hours minimum dry, apply second coat, of OPTICLEAR (pre-warmed if application temperature below 30°C), again with the applicator. Allow drying fully, preferably overnight.

This procedure will give higher gloss final coat and should not be adopted for satin or matt finishes.

For commercial and other high traffic areas, a third coat is recommended.

RESTRICTIONS

OPTICLEAR should not be applied on surfaces below 5°C or above 45°C. The surface should be clean and dry.

Conditions where the relative humidity is greater than 85%, combined with low temperatures (5-15°C) may lead to poor film formation, with consequential loss of gloss or in worst cases, loss of adhesion and powdering.

Allow a minimum of 24 hours before permitting light traffic on the surface.

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COVERAGE

First Coat: 8-10m ² /L	Second coat: 10-15m ² /L	Third coat: 10-15m ² /L
Dust Free: 30-60minutes	Tack Free: 1-2 hours	Full Dry : 48-72 hours

THINNING

Thinning is not normally required except when used as a pre-seal for first coat application on an absorbent tile (porosity above 7%)

A maximum of 50% water should be used.

PRESEALING

This procedure should be adopted when laying imported porous terracotta tiles (Mexican, Italian etc.)

Pre-sealing of the face of the tile prior to laying will reduce the occurrence of staining caused by water and cement grout smears.

This procedure minimises the necessity for acid washing the surface prior to sealing proper.

Predilute OPTICLEAR 1:1 with clean water.

CLEAN UP

Use water while equipment still wet.

After curing, a methylene chloride or orange oil-based stripper will be required.

TYPICAL PROPERTIES

Colour	Off white to straw coloured hazy fluid
Odour	slight, pleasant
Resin	Urethane-acrylic

FIRST AID & SAFETY

Refer to Material Safety Data sheet.

PACKS

20L, 200L, 1,000L

COLORO OPTICLEAR - PDS August 2020

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Chemical House does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether in accordance with any advice, specification, recommendation, or information given by it.

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