

## Resene Polythane Clear Polyurethane

Resene Polythane is a single pack hardwearing moisture-cured polyurethane. Optimum clear gloss finish for floors and hardwearing surfaces because of its unique combination of flexibility and abrasion resistance. Exceptional flow properties.

### Interior

### Typical uses

- Concrete formwork
- Corridors
- Fibre and particleboard
- Gymnasiums
- Halls
- Indoor courts
- Parquet and cork flooring
- Timber
- Work floors

*Information contained in this Data Sheet is re-validated every two years following issue date. Please ensure the current Data Sheet and Material Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.*

### Physical properties

<b>Vehicle type</b>	Moisture-cured polyurethane
<b>Pigmentation</b>	None
<b>Solvent</b>	Aromatic
<b>Pot life</b>	See limitations
<b>Finish</b>	Gloss
<b>Colour</b>	Clear
<b>Dry time</b>	3-4 hours
<b>Recoat</b>	2-24 hours; after the second coat film should be lightly sanded to ensure good intercoat adhesion
<b>Sealer required</b>	Yes, for fibre and particleboard
<b>Theoretical coverage</b>	8-12 sq. metres per litre
<b>Dry film thickness</b>	43 microns at 8 sq. metres per litre 28 microns at 12 sq. metres per litre
<b>Usual no. of coats</b>	3-4
<b>Abrasion resistance</b>	Excellent
<b>Chemical resistance</b>	Very good
<b>Heat resistance</b>	Very good - 100°C
<b>Solvent resistance</b>	Excellent
<b>Toxicity</b>	Contains xylol and small amounts of monomeric di-isocyanate
<b>Durability</b>	Excellent (interior)
<b>Thinning and clean up</b>	Do not thin; clean up with Resene Polythane Brush Cleaner
<b>VOC</b>	c. 600 grams per litre (see <a href="#">Resene VOC Summary</a> )

### Performance and limitations

#### Performance

1. May be applied over a wide range of temperatures (10°C - 30°C).
2. Excellent intercoat adhesion provided there is no longer than 24 hours between coats.
3. Excellent curing by positive reaction with traces of atmospheric moisture.
4. Requires no thinning.
5. Extremely good slip resistance.

#### Limitations

1. Due to its unique mode of curing, pot life is very susceptible to atmospheric moisture. Pot life may be prolonged by:
  - a) Keeping lids on the tins.
  - b) Discarding unused residue from the roller trays.
  - c) Decanting remains of Resene Polythane into smaller tins to reduce ullage.Pot life varies according to humidity at the time of use and cannot be accurately predicted. Viscosity is the most sensitive indicator and as soon as Resene Polythane becomes too thick to be applied it must be discarded.
2. Must not be sprayed.

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## Surface preparation

### New cork, fibre and particleboard, parquet, wood flooring

Thoroughly sand and vacuum. Ensure surface is dry and free of dust, oil, grease and foreign matter. Seal particle and fibreboard with one full coat of Resene Particle Board Sealer (see [Data Sheet D43](#)) taking care not to overspread.

### Previously varnished

Thoroughly sand and vacuum to remove all gloss, dust and grease. Ensure all old floor polishes are removed, paying particular attention to the gaps in tongue and groove flooring.

### Caution

Sanding dusts from some hardwoods are considered carcinogenic, and all old timber sanding dusts should be considered potentially harmful. Always wear an efficient dust mask.

*Sanding dust from old lead or chromate based paints or old building materials containing asbestos may be injurious to the health if inhaled or ingested. Seek expert advice if the presence of these materials is suspected.*

## Application

Apply by brush or short pile roller. Do not spray. DO NOT THIN.

1. Apply one generous coat of Resene Polythane. Allow to dry for three hours or until touch dry.
2. Apply one coat of Resene Polythane and leave overnight. Lightly sand and vacuum clean.
3. Apply one to two coats of Resene Polythane. A total of four coats will give a finer finish than three coats.
4. Allow 48 hours before allowing traffic on the finished floor.

## Precautions

1. FLAMMABLE - Keep away from heat and open flame. Keep closed when not in use.
2. Avoid breathing vapour - use with adequate ventilation.
3. Wear protective clothes. Avoid skin contact. If any skin contact occurs, wash skin thoroughly with soap and water immediately. Do not scrub the skin.
4. Avoid direct draught on finish coats during drying.
5. Do not use Resene Polythane Brush Cleaner as a thinner.
6. Must not be sprayed.
7. Contains isocyanate. When sprayed this product may be harmful by inhalation. Wear suitable clothing, gloves and eye/face protection, including suitable breathing protection such as air-supplied respirator or hood. Do not breathe vapour or spray mist. Refer 'Resene Putting your safety first' booklet.
8. If eyes become contaminated, flood with running water for at least 15 minutes. SEEK MEDICAL AID.
9. Ensure brushes/rollers are thoroughly dry or well rinsed out in Resene Thinner No.6 before use.

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If the surface you propose to coat is not referred to by this Data Sheet, please contact Resene for clarification.*