

## CLEARGARD

### High performance anti-graffiti coating

#### Description

An environmentally friendly, waterborne two component polyurethane coating based on polyol dispersions that meet or exceed the performance levels of typical solvent based systems.

Cleargard is a high performance anti-graffiti coating for concrete and brickwork, designed to overcome the problems associated with solvent borne systems, the coating provides a clear gloss finish and can be applied directly onto the substrate or as a protective overcoat to existing paint finishes.

Cleargard offers excellent UV stability and is resistant to solvent cleaners. It also contains a siloxane additive which provides outstanding hydro and oleophobic properties allowing the easy removal of felt tipped markers and paints.

#### Advantages

- Environmentally friendly.
- Non-flammable, low odour formulation.
- Economical in use and equipment may be cleaned with water.
- High performance, equal or better than solvent based systems.
- Easily applied by brush or roller.
- Versatile, apply as an overcoat to existing finishes or directly onto concrete, brick, block or timber.

#### Surface Preparation

All surfaces should be clean and free of all contaminants. Should the strength or the surface stability of the concrete base be in doubt, we would recommend that a trial patch of Cleargard be applied to assess its suitability.

#### Application Instructions

Cleargard should be applied at the correct coverage rate using a brush, applicator or roller. Thinning with water should not be necessary. One coat is normally applied but on very porous surfaces or where a high build is required a second coat may be applied. Additional coats must be applied immediately after the underlying layer has dried to avoid severe reduction in inter-coat adhesion. All equipment should be cleaned immediately after use with clean water.

#### Technical Information

##### Dry Times

Set to touch	2.5 hours	ASTM D-1640
Tack free	4 hours	
Full cure	6 hours	

##### Appearance

20° Gloss	89	ASTM D-523
60° Gloss	95	

##### Adhesion

Dry tape	5A	ASTM D-3359
Dry scrape	> 6 kg	ASTM D-2197
Wet tape		
(24 hrs/21°C)	5A	ASTM D-3359
Wet tape		
(4 days/21°C)	5A	ASTM D-3359

##### Chemical Resistance

Acid 10% HCl spot		
(7 days)	No effect	ASTM D-1308
Base 10% NaOH spot		
(7 days)	No effect	
Acid 5% Nitric spot		
(7 days)	Very slight discoloration	

##### Solvent Resistance

MEK	> 200 Double Rubs	ASTM D-4752
Toluene	> 200 Double Rubs	
Isopropanol	200 Double Rubs	

##### Impact Resistance

Direct	> 160 in-lbs	ASTM D-2794
Reverse	> 160 in-lbs	

##### Flexibility

O-T Bend	Pass	ASTM D4145-90
----------	------	---------------

##### Hardness

Pencil	2H	ASTM D-3363
Pendulum	220	ASTM D-4366

### **Technical Information (cont ....)**

#### **Weathering 1000 Hrs QUV-A**

Gloss Retention	99%	ASTM G-53
Delta E	2.5	ASTM E-1455

#### **Salt Spray**

Blister (field)	10	ASTM B-117
-----------------	----	------------

#### **Coverage**

5 m<sup>2</sup> per kg per coat

### **Packaging**

Cleargard is available in 5 kg units.

### **Storage**

Material should be stored at room temperature, protected from frost and out of the reach of children.

### **Mixing**

#### **Mix slowly to avoid entraining air.**

Empty the entire contents of the hardener tin into the base tin and mix until homogenous.

### **Limitations**

Do not use on concrete which is to be submerged in water. Do not apply below 5°C or in damp conditions or when rain is imminent.

### **Health & Safety**

Cleargard is non-flammable and is considered non-hazardous. However, normal precautions when handling chemicals must be observed including good skin care and the wearing of goggles. Splashes should be washed from the skin with soap and water before it dries.

### **Technical Support**

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.