# DURALKOTE 700

## Methyl Methacrylate Coating for Protection and Decoration on Concrete, Masonry and Steel Structure

EUCLID CHEMICAL



## Description

**DURALKOTE 700** is a one part solvent coating based on methacrylate resins. It is resistant to weathering, alkalis and ageing. **DURALKOTE 700** protects concrete against aggressive atmospheric influences and promotes a cleaning effect on the treated surfaces. **DURALKOTE 700** can be used on mineral substrate, including concrete and other cementitious surfaces.

## Primary Applications

- Protection for concrete and other cementitious surfaces
- Building structures such as external walls and roofs
- Infrastructure developments
- Dries to a matt finish

## Features / Benefits

- Excellent weather resistance
- Fast drying Methacrylate resin
- High diffusion resistance against carbon dioxide
- UV resistant
- Resistance to dirt pick-up
- Protects concrete against atmospheric corrosion

## Technical Information

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| **Chemical Base:** | Acrylate resin in solvent |
| **Colour:** | Grey |
| **Specific Gravity:** | 1.40 |
| **Solid Content by Volume:** | 58% |
| **Flash Point:** | Above 35°C |
| **Carbon Dioxide Diffusion Resistance:** BS EN 1026-6:2002, Method B | >250m equivalent thickness of air |
| **Water Vapour Transmission:** BS EN ISO 7783-1:2000 | Concrete Failure |
| **Reduction in Chloride Ion Penetration:** ASTM C1556-11A | >88% at 28 days |
| **Reduction in Water Absorption:** ASTM C642-06 | >88% at 28 days |
| **Overcoating:** | >3 hours at 30°C. |



## Packaging

**DURALKOTE 700** is available in 20kg pails.

## Shelf Life

The shelf life is 24 months if stored properly in original, unopened and undamaged sealed packaging in dry condition at temperature between +5°C and +30°C. Protect from direct sunlight.

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## Directions for Use

**SYSTEM:**
**DURALKOTE 700**
In normal condition: 2 x **Duralkote 700 Top Coat** = **2 coats at 125 microns DFT (theo 4.6 SQM/litre per coat)**

**Combined with hydrophobic Impregnation priming coats:** 1 or 2 x Weather Guard
2 x **Duralkote 700 Top Coat**

**CONSUMPTION:**
**Weather-Guard Impregnation Priming Coat:** 0.3kg/$m^2$/coat
**Duralkote 700 Top Coat:** 0.3kg/$m^2$/coat

**SURFACE PREPARATION:**
**Exposed concrete without existing coating:** The surface must be dry and free from contamination such as oil, grease, loose particles and organic growth. Concrete surface must be fully cured, free from laitance and any traces of shuttering, release oil and curing compounds. Clean the surface with steam cleaning, high pressure water jetting or blast cleaning. New concrete must be at least 28 days old.

**Exposed concrete with existing coating:** Existing coating must be fully removed if the adhesion to the substrate below 1.0N/$mm^2$. Substrate must be sufficiently sound and suitable to be coated after removed the existing coating. If the existing coating had adequate adhesion, clean the surface thoroughly by high pressure water jetting.

**Note: Duralkote 700** can be applied on existing coating without any priming. Recommended to carry out adhesion test before proceed to full scale.

**MIXING:**
**Duralkote 700** is supplied ready for use. Stir thoroughly prior to application. Thin the coating with 5% of suitable solvent if difficult to painting at low or high temperature.

**APPLICATION:**
**High dense substrate:** The first coat of **Duralkote 700** shall be thinned with up to 10% suitable solvent. **Duralkote 700** (clear and top coat) can be applied by brush or roller.

**Spray application:** Thinning the **Duralkote 700** up to 7% maximum used suitable solvent. Spray pressure 150 bars, nozzle bore 0.4 – 0.6 mm and the spray angle must be 50° to 80°.

## Clean Up

Clean all the tools immediately with solvent after use. Hardened/cured material can only be removed mechanically.

## Precautions / Limitations

Application should not be undertaken when the prevailing Relative Humidity exceeds 90%. The surface temperature must be at least 5°C above the dew point at all times to prevent moisture condensation.

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