

Product Data Sheet 11

Armourcoat Clearseal Matt

1 Product Description

Armourcoat Clearseal is a transparent water based pure acrylic coating, used to overcoat Duturo. It improves the physical properties of Duturo by making it more durable and improving its solvent and stain resistance. A satin finish is achieved when Armourcoat Clearseal is applied over Duturo.

2 Properties

- Enhances both the decorative and physical properties of Duturo coatings.
- Quick and easy to apply and economically priced.
- Water-based product range with low VOC emissions and low odour.
- Supplied ready for use on site.
- Pure acrylic polymer offering excellent physical properties including good UV resistance in areas exposed to direct sunlight.
- Imparts improved stain resistance and cleanability to all Duturo coatings.
- Viscosity 4000cP +/- 1000cP.
- Density 1.1Kg/L.
- Dry solids 30% +/- 1%.

3 Health And Safety

All products in the Duturo range are water-based, non-combustible and have low VOC emissions. They are all non-hazardous; but in keeping with good working practices, avoid prolonged skin contact. If contact with skin occurs, wash immediately with soap and water, as Armourcoat Clearseal is difficult to remove once it has dried.

4 Suitable Substrates

Armourcoat Clearseal is suitable to be applied over Duturo, which has been allowed to dry for at least 24 hours under good drying conditions*.

*** Please note**

Good drying conditions referred to means good ventilation **and** air circulation. Using fans, even in warm conditions, will greatly accelerate hardening. In very damp or humid conditions, it will also help to use a de-humidifier. If heat is used, it should not be directed at the finish and must not be damp heat as is created by gas burners.

5 Applying Armourcoat Clearseal

Using a short pile roller, roll on the Clearseal evenly across the wall. Work methodically so that no areas are missed and check carefully that there are no drips or 'tram lines' left which may stay visible on the final finish. Roll on in one direction and then roll across at 90° to create an even coating. For the best results apply 2 coats of Clearseal. Apply the first coat (diluted with 10% water) and leave to dry. Apply a second neat coat to achieve a uniform finish.

6 Testing Data

6.1 VOC Testing

Volatile Organic Content < 150 grams/litre

6.2 Chemical Exposure

6.2.1 Solvent Resistance

ASTM D1308 (1 hr open spot test)

	Initial	72 hrs later
Water	Slight softening	Recovers
Detergent	Slight softening	Recovers
Concentrated Household Bleach	Slight softening	Recovers
White Spirits	Slight softening	Slight softening
Concentrated Flash all-purpose cleaner	Slight softening	Recovers
De-Ionised water	Slight softening	Recovers
Vinegar	Slight softening	Recovers

6.2.2 Stain Resistance

ASTM D1308 (sealed spot test-cleaned with diluted Flash all purpose cleaner)

Test Liquid	60 min exposure	16 hr exposure
Water	No visible stain	No visible stain
Coffee	No visible stain	No visible stain
Tomato Sauce	No visible stain	No visible stain
Mustard	No visible stain	No visible stain
Butter	No visible stain	No visible stain
Fruit (cut apple)	No visible stain	No visible stain
Olive oil	No visible stain	No visible stain

Solvent and stain resistance tests were conducted under laboratory conditions using test panels, which had been allowed to dry for 7 days.

It is important to note that repeated exposures to any of the above contaminants may overtime cause the products' appearance to alter.

When cleaning surfaces use soft rags or sponges and a mild cleaning agent. If stains or marks persist please contact the Armourcoat Technical Department.

6.3 Accelerated Weathering

2 Samples were sent to an external laboratory for QUV testing.

Sample 1 Duturo DT-D301 + 2 coats Armourcoat Clearseal

Sample 2 2 coats Armourcoat Clearseal

Both samples, applied on Alodine panels, were exposed to cycles of 8 hours UV-light followed by 4 hours of condensation for a period of 1600 hours. After this period the samples were in good condition with no loss of adhesion, cracking or yellowing being noticed.

7 Coverage Rates

Coverage rate approximately 12-16 m²/lt.
One unit will cover approximately 70 m² (700 sq feet).

8 Storage

Store in dry conditions between 5 – 25⁰C. Protect from frost. Protect from sunlight and sources of direct heat. Keep container sealed when not in use.

Shelf life of Armourcoat Clearseal in unopened container under correct storage conditions is 12 months from date of manufacture.

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