

# Elastodeck S

HIGH PERFORMANCE ACRYLIC PROTECTIVE & DECORATIVE COATING FOR CONCRETE & MASONRY

## DESCRIPTION

**Elastodeck S** is a single component acrylic copolymer water based protective coating with excellent resistance to aggressive environments. It is available in a range of colours.

**Elastodeck S** complies with the requirements of EN 1504-2 as protective coating.

## USES & ADVANTAGES

Use to protect reinforced concrete structures from attack by atmospheric gases, chloride ions, sulphates, oxygen and water. It may be used on new or existing concrete and masonry structures and is specially suitable in aggressive marine and coastal environments.

### Advantages include:-

- Allows water vapour to escape from structure.
- Excellent resistance to UV and long term weathering.
- Highly durable in all climatic conditions.
- Excellent barrier to chloride ions, sulphates, carbon dioxide, oxygen & water.
- Broad range of colours.
- Non toxic.
- Easy clean up.
- No solvents, no pungent smell or hazard.
- Can apply to various substrates including wood.

## PROPERTIES

Volume Solids :	50%
Specific Gravity :	1.28 - 1.31
Reduction in chloride ion penetration :	>99%
Freeze/thaw salt scaling :	Unaffected
Chloride ion diffusion :	None after 2 years
accelerated weathering immersion	
Elongation :	>800% at 24°C
Fully dried :	5-7 days

*\* Properties are typical under laboratory conditions and do not constitute a specification. Field trials are recommended.*

## SURFACE PREPARATION

The surface must be sound, dry & clean with no contamination. Remove oil, grease, loose particles, moss, algae, surface laitance and any remaining traces of mould oil or curing compounds. The surface may be achieved by lightly grit or water blasting. If water blasting the surface must be dry before application. Where mosses or algae were present the surface should be cleaned with a biocide after cleaning. Before over coating of existing coatings undertake bond tests both existing coating to concrete & **Elastodeck S** to old coating.

All blow holes or minor surface defects should be made good using **Conpatch 300**, honey combs should be repaired with **Conpatch 600**. Repair materials should dry for at least 48 hours depending on climatic conditions before application.

- Suitable for protection against ingress (Principle 1, method 1.3 of EN 1504-9),
- Suitable for moisture control (Principle 2, method 2.3 of EN 1504-9)
- Suitable for increasing the resistivity (Principle 8, method 8.3 of EN 1504-9)

## APPLICATION

To achieve the protective properties of **Elastodeck S** ensure that application rates are followed

	<u>Primer</u>	<u>Elastodeck S</u>
<b>Number of Coats</b>	Flood coat	2
<b>Application Rate</b>	7.14 m <sup>2</sup> /ltr	3 m <sup>2</sup> / ltr
<b>Wet film thickness</b>	N/A	300 micron/coat
<b>Dry film thickness</b>	N/A	150 micron/coat
<b>Over coating time</b>		
<b>@20°C</b>	2 hours	8 hours
<b>@30°C</b>	90 mins	6 hours

All areas to be protected should be masked with masking tape. Do not apply if the temperature is less than 2°C. The primer should be applied by knapsack spray at 0.4 litres/m<sup>2</sup> in one or two coats and left to dry for at least 2 hours at 20°C before the application of **Elastodeck S**. Do not apply **Elastodeck S** until the primer is dry.

Apply **Elastodeck S** by brush, roller or spray.

Stir the material thoroughly before use, the first coat should be applied using suitable equipment to achieve a uniform coating with a wet film thickness not less than 300 microns.

The first coat should dry before applying the second. Apply the second coat as above to achieve a wet film thickness not less than 300 microns.

## CLEANING

**Elastodeck S** may be removed by using water whilst **Elastodeck S Primer** should be removed with solvents.

## LIMITATIONS

**Elastodeck S** is produced to apply over sound concrete, masonry and wood surfaces. If applied over an existing coating trials should be conducted to ensure compatibility & bond.

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## PACKAGING

20 litre pail.

## STORAGE & SHELF LIFE

All products have a shelf life of 12 months if kept stored in original unopened packaging. Store in cool, dry conditions away from sources of heat & flames in the original packaging. If stored at high temperatures or humidity the shelf life may be reduced.

## HEALTH & SAFETY

**Elastodeck S** and primer should be applied with adequate ventilation avoid inhalation of vapours. Wear suitable protective clothing, glasses & eye protection. In confined areas use suitable respiratory protective equipment.

If swallowed do NOT induce vomiting - give a glass of NOT water. If in eyes, hold eyes open, flush with water for at least 15 minutes.

**Elastodeck S** is non-flammable. **Elastodeck S Primer** is Primer flammable, keep away from sources of ignition. No smoking, in the event of fire, extinguish with CO<sub>2</sub> or foam.

## TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

## QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord



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1012-CPD-0102  
**EN 1504-2**  
**Protection and repair of**  
**concrete structures: Surface**  
**protection systems for**  
**concrete coating (PI, MC,IR)**

Permeability to CO <sub>2</sub> :	SD > 50 m
Permeability to water vapour:	< 0.1kg.m <sup>2</sup> .h <sup>0.5</sup>
Capillary absorption permeability to water:	SD < 5 m (class I)
Pull-off test:	≥ 0.8 N/mm <sup>2</sup>
Dangerous substances:	Comply with 5.3
Reaction to fire:	Class F

## DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc.

Cormix does not take responsibility nor need to defend others testing that does not achieve the published data.

The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

## CONTACT DETAILS

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