



## DECOFLEX E (liquid membrane)

High flexible liquid membrane waterproofing system, which dries to form acrylic membrane with super elasticity.

### DESCRIPTION

- DECOFLEX E is a high flexible acrylic emulsion liquid applied, to offer a simple method for water proofing and vapour proofing for many applications.
- DECOFLEX E dries to form a thick superior elastic acrylic membrane with high water proofing film.
- DECOFLEX E is breathable, allows substrate to breathe and prevent build up of water vapor but work as water repellent by sealing the surface against water penetration.
- DECOFLEX E is rich in binder content having high build, superb protection and excellent capability of bridging unsightly gaps and cracks.

### COLOURS, GLOSS AND APPEARANCE

DECOFLEX E is one component emulsified styrene acrylic based coating, available in white and grey as a standard colors but it can be available in a wide ranges of colors.

### PROPERTTIES & BASIC DATA AT 23°C

<b>Specific Gravity</b>	1.2 ± 0.05
<b>Solids by weight</b>	62.00 ± 1 %
<b>Solids by volume</b>	55.00 ± 1 %
<b>Tack free</b>	5 hours
<b>Final drying</b>	24-36 hours
<b>Bond strength</b> (concrete failure)	1 - 1.5 N/mm <sup>2</sup>
<b>Pull-off Test</b> (after 14 days)	1 - 1.5 N/mm <sup>2</sup>
<b>Tensile strength</b>	6 N/mm <sup>2</sup>
(For DFT of 600 microns at 23°C/ 50% RH)	
<b>Elongation</b> (after 21days)	350%
(For DFT of 600 microns at 23°C / 50% RH)	
<b>Resistance to water pressure</b>	0.10 N/mm <sup>2</sup>
(Positive head pressure)	
(For DFT of 600 microns at 23°C / 50% RH)	
<b>Water Vapour permeability</b> (BS 3177)	4 g/m <sup>2</sup> /24hours
(For DFT of 600 microns at 23°C / 75% RH)	

### WHERE TO USE

- Designed to form a flexible membrane to apply on different substrates to protect all kinds of structures including concrete buildings, bridges & stone.
- Designed also to protect timber structures against weathering and rotting.
- Used under or above screeds to provide a damp proof membrane to protect concrete or existing tiles for floors, roofs, balconies, terraces & swimming pool
- Used as the main waterproofing on Bathrooms, wet areas, flower boxes, and food processing areas.
- For applying on metallic roofs (ferrous and nonferrous) and coated metals
- For applying on asphalt and bituminous substrate Suitable for using as flexible outdoor coating

### ADVANTAGES

- Excellent water proofing and excellent elasticity.
- Resistant to chemicals, chlorine water, light alkalis & light acids, easy cleaning and disinfecting.
- Quick drying, touch dry in 1 hour, so it saves application time & provides exceptionally low applied cost.

- Single pack water based system that can be applied even to damp backgrounds.
- Breathable (vapor permeable)
- High flexibility, extensibility, good crack bridging properties & excellent protection and abrasion resistant.
- Non-toxic, non-hazardous, solvent and plasticizer free.
- Suitable for indoor as well as outdoor.
- Excellent weathering properties & chalking resistant.
- Excellent bonding to most of substrates such as concrete, Blaster, brick and steel.
- UV resistant, lasting white, color stability

### SYSTEMSPECIFICATION

#### WATERPROOFING SYSTEM

### PRECAUTIONS

- Care should be taken when curing in hot sunny or windy conditions to minimize the risk of blistering.
- Do not apply when it rains, humidity exceeds 90% or when surface temperature is 3° below dew point
- Substrates should be reasonably dry.

### INSTRUCTIONS FOR USE

- DECOFLEX E is a ready for use pre-patched component (no water or any other materials to be added).
- Excess water will reduce durability, waterproofing properties, adhesion, Impermeability, weathering resistance and strengths.
- In a hot dry weather dampen unpainted surfaces to prevent drying out too rapidly.
- DECOFLEX E must not be used to protect water retaining structures which are badly constructed.

### •1 RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- DECOFLEX E can be applied at various weather conditions but ideal applications carried out in a hot weather, where the Minimum application temperature is 5°C, so do not apply when temperature is 5°C or going to fall below 5°C within 24 hours.
- The substrate to be properly prepared and clean.

### •2 SURFACE PREPARATION

- As with all coating systems, surface preparation is of prime importance.
- All substrate surfaces must be properly prepared, clean, free from oil, grease, or any loosely adhering material.
- Remove efflorescence, mineral salts, fungus and form treatment by an appropriate method ((wire brushing, scraping or high pressure detergent/ water blasting).
- If the concrete surface is defective or has excess laitance, it must be cut to a sound base by an appropriate method.
- All voids, cracks and delamination in concrete must be repaired by PROREP and any holes must be filled.
- Any steel in the repair area should be exposed around its full circumference and thoroughly cleaned to remove all loose scale and corrosion deposits either by mechanical properties like sand blaster or mechanical abrasive like chipping or whip sand blasting or by using a suitable rust remover (PRODERUST).



**WATERPROOFING SYSTEM**



- PROGUARD RO PRIMER or PROZINC R20 primer should be used as corrosion inhibitor to prevent interior corrosion to insure ideal bonding with the DECOFLEX E.
- All voids, cracks and delamination in concrete must be repaired by PROREP and any holes must be filled.
- Holes and joints between tiles must be properly filled with good cemented paste PROJOINT C.
- Tiles damaged joints must be firmly grouted.
- Asphalt and bituminous felts blisters must be bond with suitable adhesive
- All surfaces must be as true and flat as possible.
- Smooth surface, new substrate or glazed layer of tile should be mechanically roughened to provide an "Open Pore Surface" to enhance the effectiveness of adhesion.
- Non-sand blasted surfaces will affect the bonding between DECOFLEX E and substrate surface.
- For an additional super adhesion between concrete, roughened fixed tiles and the first layer of DECOFLEX E, using of DECOPRIME EW as a bonding primer is highly recommended.

**3 MIXING:**

- DECOFLEX E is a ready for use pre-patched component (no water to be added).
- Material should be stirred in its pack very well till homogeneous consistency.

**4 APPLICATION:**

- DECOFLEX E is normally applied in two coats evenly by roller, brush or with airless spray without dilution or addition of any other materials with minimum surface preparation
- Spray smooth substrates only and apply in one plane at even thickness
- DECOFLEX E can be applied using rollers for one coat applications.
- To glossy painted surfaces, degrease with Detergent or similar.
- Apply directly to brick, masonry, plaster, Concrete, asbestos, wood, non-porous surfaces.
- To glossy painted surfaces, degrease with Detergent or similar.
- Prime with DECOPRIME EW where ever the paint will expose to harsh weather condition.
- Allow primer to dry.
- Stir thoroughly. Apply first coat evenly by roller, brush or with airless spray (spray smooth substrates only and apply in one plane at even thickness).
- DECOFLEX E can dry in 1 hour in good weather, this time may be extended in cold temperatures.
- Waiting times between coats: minimum 1 hour and maximum 24 hours.
- Fiber fabric reinforcement recommended is 0.50 mm made from polypropylene or polyester.
- Embed the fiber mesh into the base coat while it is still wet. Insure that the fiber mesh is thoroughly embedded and smooth out all air buckets.
- Overlaps of adjacent membrane must be of minimum of 50 mm.
- When touch dry, apply a final topcoat.
- For ideal protection Third coat can be applies in areas of extremely aggressive conditions.

**THEORETICAL COVERAGE:**

With fiber fabric mesh reinforcement, consumption is 1.2– 1.5 kg /m<sup>2</sup> in three layers  
Layer thickness is (150-200 microns D.F.T)  
0.5 - 0.6 kg/m<sup>2</sup> for 1st layer, 0.4 - 0.5 kg/m<sup>2</sup> for 2<sup>nd</sup> layer and 0.3 - 0.4 kg/m<sup>2</sup> for 3<sup>rd</sup> layer

**CLEANING**

DECOFLEX E should be removed from tools & equipment immediately after application before drying by cleaning with water and dried material can only be removed by PROTHINNER CL or mechanically.

**PACKAGING**

DECOFLEX E is available in 10, 20 Kg pails

**STORAGE:**

DECOFLEX E has a shelf life of 12 months if kept in sealed bags in a dry condition in its original unopened packs in proper conditions under cover, out of direct sunlight and protected from extremes of temperature and humid environmental and free from heat and frost.

**HEALTH AND SAFETY**

- All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations
- Prior to use, obtain, consult and read well the Material Safety Data Sheet for this product and follow all precautionary notices.
- Take precautions to avoid inhalation of spray mist, skin, mucous membrane and eye contact by the use of safety equipment (gloves, goggles, face masks, barrier creams etc.) and other personal protection.
- If skin comes in contact, it should be thoroughly flushed and washed with fresh water and proprietary cleanser and soap.
- Eyes should be cautiously washed with fresh water or proprietary wash and medical attention obtained.
- Don't use solvents for skin cleaning
- Equipment and tools to be cleaned immediately after use with clean water.
- Don't dispose of water or soil but according to local regulations.
- DECOFLEX E is nontoxic according to health and safety codes and it is also non-hazardous.
- Keep labelled until decontaminated

**ADDITIONAL INFORMATIONS**

PROTECH provides all type of coatings and construction chemicals which answers the queries of modern engineers for trouble free durable structure.

PROTECH create special and specific products when there are critical applications that require specific requirements (tailor made designs)

PROTECH technical office gives this information and recommendations relating to the application of products in this data sheet representing test results & practical experience obtained under a good and controlled conditions when properly stored, handled and applied under normal condition.

However, as products are often used under different conditions, we can only guarantee the quality of our product, and reserve the right to change data without further notice

PROTECH data are correct to the best of our knowledge and experience of products.



**WATERPROOFING SYSTEM**

The differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose.

All orders are accepted subject to our current terms of sale and delivery.

**PROTECH** users should always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

**PROTECH** technical services department is ready to provide our customers with more information and after sales support to assist our customers in a proper application, so don't hesitate to consult us.

