



# Paint Academy Tutorial 5

## Waterproofing New Flat Deck Roofs and Parapet Walls

### DETERMINING YOUR PRODUCT REQUIREMENT:

- Measure area to which paint is to be applied.
- Depending on surface to which the product is to be applied, determine which products are needed. (Refer to Product Specifier Tool).
- Check the Theoretical Spread Rates (TSR) on each of the specified products and see how many coats of each are recommended, then calculate what quantities of each product you will require, remembering to make adjustments for the porosity of each surface. TSRs are based on products applied to smooth, sealed surfaces. (e.g. an unsealed scratch plaster surface will absorb more paint than a sealed smooth one, so allow for a lower spread rate).
- Check out the specifications on all the top coat choices (referring to the relevant data sheets) and decide which is right for you.

### Method 1) USING AQUAMATT

#### IF CURED CONCRETE

##### Surface Preparation

1. Ensure surface is free of loose friable material.
2. Apply 1 coat **AcrySeal**, diluted 1:1 with water to the entire deck and parapet walls. Allow to dry.

#### IF UNCURED CONCRETE (GREEN STAGE)

##### Surface Preparation

1. Ensure surface is free of loose friable material
2. Apply 2 coats **CemenTek**. Allow 2 hours of drying time between coats @ 25°C. Sufficient coats of **CemenTek** must be applied to completely seal the surface therefore apply more than 2 coats if necessary.

**Note:** If the surface is not completely sealed then the applied waterproofing system may blister.

##### Application Method

1. Adhere membrane to all joints using **AquaSeal Saturator**. Apply 1 liberal coat of **AquaSeal Saturator** to the areas to which the membrane is to be applied. Using the top of the brush and a dabbing action, bed the membrane into the **AquaSeal Saturator**. Apply progressive sections of 30-40cm at a time checking that the **AquaSeal Saturator** is still wet. This will ensure complete adhesion of the membrane.
2. Apply the membrane to all 90 degree joints between the flat deck and parapet walls. (and any other joints where movement may occur. Use a brush to smooth down the membrane. Allow to dry.
3. Using a sponge ripple roller or brush, apply first coat of **AquaMatt**, covering the deck, membraned joints and the tops of parapet walls. **AquaMatt** must be applied in multiple layers, so apply each coat thinly to facilitate quicker drying time between coats.

4. Apply a second coat of **AquaMatt**. N.B. Drying times are at specified film thickness. Should **AquaMatt** be applied to thickly due to roughness, undulations and indents in surface, it is up to the applicator to check for thicker areas and to ensure they are properly dry between coats. If recoated before properly dry, blisters will form in the product in those areas.
5. Apply 3rd coat and as many subsequent coats as necessary. **The rule of thumb is 2 litres per square metre**. So if your deck is 10m<sup>2</sup> you will need 20 litres of **AquaMatt**, which you must keep applying in coats until all the product is finished. This is the only way to ensure you have effective uniform thickness of appropriately 1mm.
6. Ensuring that the **AquaMatt** is completely dry finally apply 2 coats of either **AquaSeal Top Coat** or **Elegance**. **White is recommended** as it resists heat and minimises expansion and contraction. (**Elegance** is however available in the colour of your choice. You will need 1 litre per 8m<sup>2</sup> to achieve effective coverage.

## Guarantees and Maintenance Plan

Any product will be degraded by the harsh UV rays experienced in South Africa.

To ensure long term protection of **AquaMatt**, top coats of either **Elegance** or **AquaSeal** must be applied.

### If white AquaSeal: (Guarantee Period: 5 years)

1. Inspect annually to check for signs of degradation or cracking.
2. Recoat with **AquaSeal** every 3-4 years.

### If white Elegance: (Guarantee Period: 10 years)

1. Inspect annually to check for signs of degradation or cracking.
2. Recoat with **Elegance** every 7 years.

Do not hesitate to contact our technical support department on 011 794-2885 should you have any queries

## Relevant Product Information

### AcrySeal

Theoretical Spread Rate	10-15m <sup>2</sup> per litre
No. of Coats Required	1 coat
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 30 minutes

### CemenTek

Theoretical Spread Rate	10-15m <sup>2</sup> per litre
No. of Coats Required	2 Coats
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 2 hours before overcoating and foot traffic 7 days hard cure

### AquaSeal

Theoretical Spread Rate	1m <sup>2</sup> per litre with Membrane 8m <sup>2</sup> per litre on Sealed Surfaces
No. of Coats Required	4 Coats (with Membrane) 2 coats on AquaMatt
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 30 minutes

### AquaMatt

Theoretical Spread Rate	0.5m <sup>2</sup> per litre @ 1mm film thickness
No. of Coats Required	3 coats or until the product is all used up
Application Method	Brush or Roller
Drying Time	@ 25°C – 30 minutes ± 150µm film thickness

## Top Coat Choices

### Elegance (Matt or Glo)

Theoretical Spread Rate	8-10m <sup>2</sup> per litre
No. of Coats Required	2 Coats minimum
Application Method	Brush, Roller or Spray
Drying Time	@ 30°C – 25 minutes

### AquaSeal

Theoretical Spread Rate	1m <sup>2</sup> per litre with Membrane 8m <sup>2</sup> per litre on Sealed Surfaces
No. of Coats Required	4 Coats (with Membrane) 2 coats on AquaMatt
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 30 minutes

## Method 2) USING AQUASEAL SATURATOR and MEMBRANE (Bandages)

### IF CURED CONCRETE

#### Surface Preparation

1. Ensure surface is free of loose friable material.
2. Apply 1 coat **AcrySeal**, diluted 1:1 with water to the entire deck and parapet walls. Allow to dry.

### IF UNCURED CONCRETE (GREEN STAGE)

#### Surface Preparation

1. Note: If **AcrySeal** is used as a sealer on a damp or green (wet) new flat deck, before waterproofing, blistering of the system may occur after drying.
2. Ensure surface is free of loose friable material.
3. Apply 2 coats **CemenTek**. Allow 2 hours of drying time between coats @ 25°C. Sufficient coats of **CemenTek** must be applied to completely seal the surface therefore apply more than 2 coats if necessary.

**Note:** If the surface is not completely sealed the applied waterproofing system may blister.

#### Application Method

1. Adhere membrane to flat deck and parapets using **AquaSeal Saturator**. Apply 1 liberal coat of **AquaSeal Saturator** to the areas to which the membrane is to be applied. Using the top of the brush and a dabbing action, bed the membrane into the wet **AquaSeal Saturator**. Apply progressive sections of 30-40cm at a time checking that the **AquaSeal Saturator** is still wet. This will ensure complete adhesion of the membrane to the surface. Allow to dry
2. Once the membrane is stuck to the surface and is dry, apply at least 2 more coats of **AquaSeal Saturator** to the membrane. Allow to dry.
3. Finally apply 2 **AquaSeal** Top Coats or 2 **Elegance** Top Coats. Allow to dry between coats.

#### Guarantee:

This system carries a **5 year guarantee** if inspected annually and a new top coat of **AquaSeal** applied after 3 to 4 years.

This guarantee can be **extended to 10 years** if the finished system is top coated with **Elegance Glo**, inspected annually and overcoated after 7 years if necessary.

### AquaSeal

Theoretical Spread Rate	750ml/m <sup>2</sup>
No. of Coats Required	3 Coats (with Membrane)
Application Method	Brush, Roller or Spray
Drying Time	@ 25°C – 1 hour 30 minutes