

# POLYROCK

## **Base Coat (Joint Compound) & Top Coat Specifications**

There are two types of "Joint Compound" used for treating the joints; "Base Coat Adhesive" and "Top Coat Stucco." Use both in sequence for best results.

### **Base Coat**

#### **Description**

Polyrock Base Coat is, is a Cement- based mortar designed to fill/treat the joints between Cement Boards, ensuring a strong and durable joint. Once used with alkaline resistant fiber glass mesh tape, Polyrock Base Coat offers the best crack resistance on the market. Polyrock Base Coat can also be used for both interior and exterior applications.

#### **Features**

- Pre-blended, Just add water
- Easy to apply
- Heavy Duty
- Fiber Reinforced

#### **Package**

- 21.5Kg Bag.

#### **Coverage**

- 65 – 75sqf of Joints.

#### **How to use**

Firstly Ensure that Cement Boards are installed correctly with 3-5mm space between them. Do not “Butt” Boards Together. Horizontal Joints should also be staggered and not linear.

1. Place an appropriate amount of jointing compound in bucket, and add water in small amounts while mixing until a workable paste is formed. Try to mix slightly stiff, so that It does not “run” after being applied.
2. Mix thoroughly with a mechanical mixer for about 5 minutes. Allow to stand for 2 minutes and mix again for 1 minute after which compound can be used.
3. Once mixed, use in less than 30 minutes.
4. Before applying compound dampen joint/s with a wet rag or sponge. This clears any dust that might affect the bonding of the compound to the joint.

#### **External walls**

5. Fill the joint (3-5mm space) with compound and spread a 6” inch wide coat of Base Coat over the joint. While the compound is still soft, apply a layer of 4” and 2” Cement Board fiber tape sequentially. Ensure that

both fiber tapes are fully covered, and properly positioned on center. Apply additional Base Coat if needed. Smooth off and allow to dry.

### **Internal Walls**

6. Fill the joint (3-5mm space) with compound and spread a 4" inch wide coat of Base Coat over the joint. While the compound is still soft, apply a layer of 2" Cement Board fiber tape. Ensure that both fiber tapes are fully covered, and properly positioned on center. Apply additional Base Coat if needed. Smooth off and allow to dry.

7. Allow to dry for 24 Hours. After fully dried, apply any touching up if necessary, ensuring that the tape is fully covered.

(Base coat is difficult to sand after it has hardened, care should be taken to apply it smoothly).

### **Warning**

Once a batch of Base Coat is mixed it is usable for about 30 minutes (depending on the weather conditions) once the material begins to harden and becomes difficult to apply. You can use a mechanical mixer to re-blend the mix, it will make it easier to spread. Do not add any more water at this stage. If the mix becomes too hard to spread and adhere, it must be discarded.

### **Parameters of Joint Compounds**

Wall surfaces that exceed 20ft in length by 9ft in height, or that exceed 180sqf, will require Expansion/Control joints. Using these, will absorb movement and prevent "cracking."

### **Storage**

Polyrock Base Coat should be kept in a cool and dry area. Once the package is sealed, it is best used within 12 months.

### **Performance**

Base Coat compressive strength – 7 days = 4000psi

Base Coat compressive strength – 30 days = 5000psi



# **Top Coat**

## **Description**

Polyrock Top Coat, is a Cement based mix used for finishing and leveling Cement Board Joints/wall surfaces. Once mixed correctly, Polyrock Top Coat forms a smooth finish that won't shrink or crack over time. A 3 – 4mm layer is all that is needed in order to prime and paint.

## **Features**

- Pre-blended, Just add water
- Easy to apply
- Exterior Durability
- No sanding required

## **Package**

- 21.5Kg Bag

## **Coverage**

- 170 – 185sqf.

## **How to use**

Once the base coat is hard, and cement board joints have been properly installed mix "Top Coat" as per instructions, and apply as needed.

1. Place an appropriate amount of jointing compound in bucket, and add water in small amounts while mixing until a workable paste is formed. Top coat should appear "Buttery," when properly mixed.
2. Mix thoroughly with a mechanical mixer for about 5 minutes. Allow to stand for 2 minutes and mix again for 1 minute after which compound can be used.
3. Once mixed, use in less than 30 minutes.
4. Before applying compound dampen joints/ wall surface with a wet rag or sponge. This clears any dust that might affect the bonding of the compound to the joint.
5. Apply top coat, approximately 2mm-3mm thick.
6. Apply over Joints or, use to cover entire wall surfaces. Covering the entire wall surface, will ensure a perfectly flat and uniform finish.
7. Feather off to a semi-smooth finish, and let sit for 15 minutes. Once it has started to set, gently use a moist sponge and float to achieve smooth finish.
8. Allow to dry for 24 Hours. After fully dried, apply any touching up if necessary.
9. When the top coat has completely hardened, it can be primed and finished.
10. On completion, a second application of Top Coat can be added for additional strength and longevity if desired.

11. For Commercial applications, use one layer of Fiberglass mesh, and 2-3 coats of Top Coat. (1m wide roll of fiberglass mesh, and cover entire wall surface).

**Warning**

Once a batch of Polyrock Top Coat is mixed, it is usable for about 30 minutes (depending on the weather conditions) once the material begins to harden and becomes difficult to apply. You can use a mechanical mixer to re-blend the mix, it will make it easier to spread. Do not add any more water at this stage. If the mix becomes too hard to spread and adhere, it must be discarded.

**Parameters of Joint Compounds**

Wall surfaces that exceed 20ft in length by 9ft in height, or that exceed 180sqf, will require Expansion/Control joints. Using these, will absorb movement and prevent “cracking.”

**Storage**

Polyrock Top Coat should be kept in a cool and dry area. Once the package is sealed, it is best used within 12 months.

**Performance**

Top Coat compressive strength – 7 days = 2000psi  
Top Coat compressive strength – 30 days = 2600psi

