# WALL PUTTY

## R1 Smooth Putty

B2 Gypsum Plaster
C475 Joint Comound
R1 Smooth Putty
R2 Finish Putty
R3 Coarse Putty
R4 Flex Putty
GM11 Interior Acrylic Putty
GM12 Exterior Acrylic Putty

# R1 SMOOTH PUTTY

R1 Smooth Putty is a mechanically-blended compound of white Portland cement, hydrated lime and specific additives, designed to achieve a steel trowel finish over a Portland cement base.

## FEATURES AND BENEFITS

- Lasting durability protects as it decorates.
- Mixes easily with potable water.
- Genuine lath and Portland cement plaster finish.
- Low maintenance, economical.
- Weather resistant - does not deteriorate with age.
- Adds aesthetic value to any building.
- Impervious to termites
- provides excellent bond to any properly prepared Portland cement base surface
- provide condensed, smooth surface for painting
- requires the addition of only clean water for mixing.

## USES

Ideal for use in high moisture areas such as:

- showers, bathrooms,
- swimming pool dressing rooms,
- laundry rooms,
- locker rooms.


## SURFACE PREPARATION

- New Portland cement substrates should be properly cured prior to application of R1 Smooth Putty (approximately 7 days).
- All receiving surfaces must be structurally sound, clean, free of dust, dirt, silicones, paint products, efflorescence or any other contaminant which could impair the natural bond.
- Surface defects, such as cracks, holes or voids should be repaired prior to application.
- Basecoat should be plum, level, and square to prevent uneven thickness of R1 Smooth Putty.

## MIXING

- R1 Smooth Putty should be mechanically mixed for approximately 15 to 20 minutes to provide maximum workability.

### For Hand Application:

- 6 liters to 7 liters of clean water per 20kg sack will be necessary.
- Add approximately 1/2 of the required water to the mixer. With the blades running, carefully add the R1 Smooth Putty.
- Allow ample time for initial mixing, add remaining mix water, and complete mixing to produce a smooth, workable consistency.

### For Machine or Spray Application:

- Additional mixing water may be necessary.

**NOTE:** For maximum strength and increased moisture resistance, add Gomix Acrylic Latex to the mix water using a 3:1 ratio (3 parts water/1 part Latex).

## APPLICATION

- Apply R1 Smooth Putty to a thoroughly dry basecoat which has been evenly wetted by brushing or spraying (to control suction).
- Allow surface moisture to dissipate prior to application.
- Avoid the use of excessive moisture during application.
- R1 Smooth Putty should be applied to an approximate thickness less than 2mm.
- Trowel apply the initial coat (scratch coat) evenly to the substrate with enough pressure to insure tight

contact. After the basecoat has been covered completely, double back and fill out to a true, even surface.

- Allow material to hydrate (begin to lose its moisture to the basecoat and to the ambient air) and then trowel it well, firmly compacting the material with water, free from catfaces and/or other blemishes or irregularities.
- Avoid unnecessary "build-ups" which cause shrinkage or check-cracking. A properly prepared basecoat will prevent leveling with the R1 Smooth Putty.
- R1 Smooth Putty should be applied true and even without imperfections which can be attributed to the applicator's work and materials.
- A top quality plastering job requires not only top-grade materials, but careful planning and application techniques. Do not deviate from instructions.

## PACKAGING

- R1 Smooth Putty is available in 20kg craft sacks.

## DOSAGE

- One 20 kg bag covers approximately 17 to 20M2, depending on thickness and condition of basecoat.
- Few dosages for the even surface

## PRECAUTIONS

- Do not apply R1 Smooth Putty in applications if the prevailing outside temperature is below 40°F (4°C) or is forecast to fall below 40°F (4°C) within 24 hours after application.
- Moist curing may be necessary during hot/dry weather conditions.
- On Internal applications, openings in the building (windows, doors, etc.) should be covered to avoid excessive wind which could cause premature dry-out.

## SHELF LIFE

Up to 12 months in unopened bags, stored in an elevated, cool dry place

## TECHNICAL DATA

| **Physical state and appearance** | | | | |
|---|---|---|---|---|
| **Setting time by vicat needle** | | ASTM C191 | Initial 60 mins – Final 270 mins | |
| **Durometer hardness** | | ASTM D2240 | 60 - 70 | |
| **Water penetration and leakage** | | ASTM E514 | 100% reduction in leakag | |
| **Carbon-arc weathering** | | ASTM G152 | 2000 hours – no effect | |
| **Length change** | | ASTM C157 | 300 µstrains @ 28 days | |
| | | **7 Days** | **14 Days** | **28 Days** |
| **Compressive strength – psi** | **ASTM C109** | 4150 | 4400 | 5100 |
| **With 2 quarts of Admix** | | 5000 | 5290 | 6300 |
| **Flexural strength–3 point loading–psi** | **ASTM C78** | | | 1100 |
| **Tensile strength – psi** | **ASTM C307** | 400 | 430 | 430 |
| **With 2 quarts of Admix** | | 600 | 600 | 635 |
| ***Allowable design stress based on gross area of the CMU (IBC) for mortar-less wall construction*** | | | | |
| **Standard block** | | 45 | | |
| **Ground block** | | 85 | | |
| **Shear stress** | | 10 | | |
| **Tensile stress in flexure, vertical span – psi** | | 18 | | |

For further information consult our Technical Department

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