

## PRODUCT DESCRIPTION

PlekoProof RC45 is a high flexibility, superior quality, elastomeric roof coating. Its unique formulation provides a seamless membrane that is tough yet flexible, weather and UV resistant. The high whiteness effectively reflects heat away from the roof. Specially designed to withstand extreme weather conditions.

## USES

For exposed waterproofing applications for areas such as concrete roof decks, balconies, firewalls, metal profile roofs, terrazo roof tiles, PU foam roofs, old waterproofing membranes, wet areas, precast walls.... The flexible thick film formed adapts to substrate movements.

## APPROVED SUBSTRATES

Precast concrete, concrete masonry, rendered surfaces bricks, metal sheets, fiber cement boards, gypsum boards, tiles, PU foam insulation.... Suitable or re-roofing over existing old roof.

## COLOR

White Color

## PACKAGING

20 Kg per pail.

## COVERAGE

Approx 1.0-1.4Kg per sqm per coat, depending on film thickness and type and porosity of substrate.

Manufacturer does not warrant square meter coverage, which can vary greatly according to usage, film thickness, substrate porosity, texture, surface imperfections, temperature and application method

## PROPERTIES

- **Single Component, Easy to Apply**
- **Seamless Waterproofing**
- **Outstanding Protection Against UV**
- **Crack Bridging**
- **Heat & Solar Reflection**
- **Superior Durability**
- **Excellent Adhesion**
- **Fungus and Mold Resistant**
- **For all kinds of slopped roofs**

Appearance	White Liquid
Bulk Density (Kg/L $\pm$ 0.5)	1.33
Solid Content (% $\pm$ 1)	65
Adhesion Strength (N/mm <sup>2</sup> )	>1
Positive Hydrostatic pressure @ 5 bar (50m)	Pass
Negative Hydrostatic pressure @ 3 bar (30m)	Pass

## ADHESION

Excellent adhesion to approved, properly prepared substrates.

## DRYING TIME

Touch dries in approximately 4 to 8 hours. Allow 24-36hrs between coats. Drying speed highly depend on thickness applied, temperature and humidity. Allow system to cure at least 72hrs to achieve full mechanical properties.

## SOLUBILITY

While still fresh, soluble in water. Clean all equipment with water immediately after use.

## SHELF LIFE

24 Months

## STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container. For prolonged storage it is recommended to periodically turn pails upside down to avoid sedimentation.

## INSTALLATION

### MIXING

Mix thoroughly until uniform consistency taking special care to avoid excessive up and down motion with drill and blade. If needed adjust viscosity by adding water (5-10%).

### SUBSTRATE PREPARATION

Surface must be sound, clean, dry, and free of bond-inhibiting materials such as paint, grease, oil, efflorescence, form release agents and curing compounds. The surface must be free of any irregularity. Cleaning may be accomplished by wire brush, sandblasting, forced air, hydro blasting or other methods. All pot holes and surface defects shall be repaired with a suitable concrete repair mortar from the PlekoMortar range.

### APPLICATION

**Priming:** Apply a primer coat of PlekoProof RC45 diluted 15-25% with water using a brush or roller to seal the pores and improve adhesion. Allow to dry before applying next coat.

**Waterproofing:** Apply first coat by roller or spray to approx. 500 microns on previously primed surface, immediately embed PlekoMesh WP Det in wet film at all corners, joints and drainage holes. Once dry the second coat should be applied at right angle to the first to achieve a final thickness not less than 1mm. When waterproofing

large areas such as roofs, terrace, pools... it is recommended to apply PlekoMesh WP to entire area for added reinforcement.

**Protection:** Place a non-woven polyester separation layer over the acrylic waterproofing membrane, then insulation layer, polyethylene sheet and either insitu screed, cement tiles or gravel....depending on requirements.

### LIMITATIONS

Apply only to unfrozen surfaces above 4 °C (40°F). Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application. Do not allow to freeze. Do not apply to substrates which are wet from dew or rain. Must be protected from rain and freeze until hardened.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

## HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust. For detailed information refer to relevant material safety data sheet.

#### Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. We reserve the right to change any given specification without notice.

