



# RAPID REPAIR BROOMABLE

**DESCRIPTION:**

Con-Spec's Rapid Repair Broomable is a unique, preblended polymer modified, cementitious, resurfacing material requiring only potable water for mixing. Rapid Repair Broomable is designed to restore the broom finish of a concrete surface after patching. It has a working time of approximately 15 minutes and achieves initial set in approximately 40 minutes and can be opened to foot traffic within four hours at 24°C (75°F). Rapid Repair Broomable develops high strength, has a tenacious bond, excellent resistance to freeze thaw cycles & weathering, and exhibits excellent sulphate resistance.

**USES:**

Con-Spec Rapid Repair Broomable is well suited to restore the surface of broom finished concrete. It can also be used to repair and patch chipped, spalled or broken concrete, floors, walls, curbs, loading docks and ramps. Rapid Repair Broomable may also be used to reset floor tiles, repair stucco, and repair surface imperfections. It can be used in vertical or horizontal, interior or exterior applications. The finished repair is dense, crack resistant, durable, and has exceptional strength.

**CHARACTERISTICS:**

Con-Spec Rapid Repair Broomable is a fast setting, versatile resurfacing and patching material with improved flexural, tensile and reduced permeability characteristics. Rapid Repair Broomable can be modified with various ingredients to alter its characteristics.

**LIMITATIONS:**

Do not apply this material in areas where the temperature is or will be below 7°C (45°F) or over 35°C (95°F) within 24 hours of application. For applications over 3 cm (1") in thickness use Rapid Repair Blue-Line Grout.

**COMPOSITION:**

Con-Spec Rapid Repair Broomable contains a proprietary cement formulation with special polymer modifiers. It has specially selected blended aggregates and admixtures which are used to increase adhesion and aid curing.

**COVERAGE:**

Con-Spec Rapid Repair Broomable is packaged in 22.7 kg, (50 lb) bags and will yield approximately 0.45 cubic feet or 0.012 cubic meters per bag. A bag of Rapid Repair Broomable can cover up to 50 ft<sup>2</sup>/bag at a depth of less than 1/8" thick.

**PROPERTIES: (@23°C)****Compressive Strength (ASTM-C109)**

	(@4L/22.7 Kg Bag)
1 Day Mpa (psi)	19 (2,750)
7 Days Mpa (psi)	31 (4,500)
28 Days Mpa (psi)	49 (7,100)

**SURFACE PREPARATION:**

Surface must be structurally sound- free of loose or deteriorated concrete, dust, dirt, and other contaminants. Clean and prime exposed steel and reinforcing. When substrate is not absorptive, abrade as necessary to ensure proper bonding. Apply Rapid Repair Primer at a rate of 200 square feet per gallon to the prepared surface. Allow primer to dry before installing Rapid Repair Broomable.

**MIXING INSTRUCTIONS:**

Con-Spec Rapid Repair Broomable will require 4 liters of potable water per 22.7 kg. bag, to achieve the proper consistency. Add the Con-Spec Rapid Repair Broomable to the water and thoroughly mix to a thin trowelable consistency, mix for 3 minutes minimum but no more than 5 minutes in total.

**WORKING CHARACTERISTICS:**

Con-Spec Rapid Repair Broomable has a fast 15 minute working time and will have initial set in about 40 minutes, it can be opened to traffic within four hours at 24°C (75°F). The mixed material trowels easily and has an easily workable, broomable consistency. Due to the short working time of the Rapid Repair Broomable it is important to organize the placement operation for completion within this time limitation. After placement, the material will gain strength quickly and finishing operations may be difficult.

**APPLICATION TECHNIQUES:**

To ensure complete bond with the entire surface, a prime coat of Rapid Repair Primer is applied to the surface at 200 square feet per gallon. Allow primer to dry. The Rapid Repair Broomable is then mixed to a thin trowelable consistency and spread onto the prepared area with a trowel or squeegee. Apply sufficient force to fill all holes and voids, and broom to the desired finish. On large areas, use a screed to obtain a uniform level before brooming. It may be applied up to 3 cm (1") thick in one application.

**Notice to User** - Con-Spec Industries Ltd. warrants that the product described on the face hereof has been manufactured of selected raw materials by skilled technicians. Con-Spec Industries Ltd. shall not be responsible for any claims resulting from the failure to utilize the product in the manner in which it was intended and in accordance with instructions provided for use of product. The only obligation of Con-Spec Industries Ltd. shall be to replace any quantity of this product which proved to be defective. Con-Spec Industries Ltd. assumes no liability, loss, or damage resulting from use of this product. **Your use of this product constitutes your acknowledgment and acceptance of these terms and limitations.**

**CURING TECHNIQUES:**

Con-Spec Rapid Repair Broomable does not require wet curing, unless exposed to wind or direct sun. When Rapid Repair Broomable is applied in areas exposed to wind and/or direct sunlight the water saturated burlap should be applied to the concrete surface and then covered with a polyethylene sheet. The burlap can be applied as soon as the product has set firm and the surface won't be marred. Next day, after the material has set, apply Con-Lith 3 at a rate of 200 square feet per gallon. For best results apply 2 coats. Allow to dry 4 hours before 2<sup>nd</sup> application. **Do not use solvent based curing compounds.**

**FIBERS:**

Polypropylene fiber reinforcement can be used to make Rapid Repair Products even stronger while reducing plastic shrinkage cracking. **However the fiber will make brooming difficult, it is recommended that fibers are used only where the product will be used for patching.**

Polypropylene fibers are non-corrosive and alkali resistant. They are designed to reinforce Rapid Repair products. One bag of Rapid Repair Broomable requires 32 grams of fiber.

The fibers should be added to the mixing water and thoroughly blended **before** adding the Rapid Repair Broomable to the mixing water. If possible, continue to stir the water-fiber mix while slowly adding the dry mix to the water-fiber mixture. This will maximize the distribution of the fibers in the mix. All other standard procedures and practices for the use of grout or concrete should be followed. Fibers may stick up in the finished top surface but will wear off with time.

**CLEAN UP:**

Clean application tools and mixing equipment with water immediately following use as hardened product is difficult to remove.

**SAFETY PRECAUTIONS:**

Product contains cement and is alkaline on contact with water. Wear dust, skin, and eye protection. Irritating to eyes and skin. Avoid splashing into eyes. Avoid contact with skin. In case of eye contact, flood eyes repeatedly with water and call a physician immediately. **DO NOT RUB EYES!** Wash hands thoroughly with soap and clean water after handling. Do not take internally. Keep out of reach of children. Consult Safety Data Sheet for further information.