



SAKRETE GRAVITY

SAKRETE Gravity is a high performance, one component, rapid setting, repair mortar for overhead, vertical and horizontal concrete repair applications. This product is a shrinkage-compensated formulation, which is ideal for any structural or cosmetic concrete repair.

FEATURES & BENEFITS

- Lightweight for high build in vertical or overhead applications
- Shrinkage-compensated to provide structural repair of holes or cracks
- Excellent bond to parent concrete without requiring a bonding agent
- Excellent resistance to freeze-thaw cycling
- Rapid-setting for minimal turnaround time
- Moist cure for only 24 hours

USES

- Ideal for partial depth rehabilitation of concrete beams, columns and/or soffits
- For repair applications under 50 mm (2 inches) in thickness
- For thicker vertical and overhead applications, apply SAKRETE Gravity in 50 mm (2 inch) lifts
- For thicker horizontal applications, apply SAKRETE Fast Set or a concrete mix of equivalent quality

PROCEDURES

Surface Preparation: All surfaces to be in contact with SAKRETE Gravity must be free from dust, oil, grease or any other foreign substances that may interfere with the bond of the material. Remove all delaminated or unsound concrete, providing a roughened surface. Clean the area to be repaired with potable water, leaving the concrete saturated but free of standing water.

Mixing: Place 75% of required potable water into mixer and slowly introduce entire pail of SAKRETE Gravity. Add balance of required water slowly while mixer is running, not exceeding maximum recommended volume of water. **Recommended volume of water is 0.70 L (0.18 US gallon) to 0.75 L (0.20 US gallon) per 5 KG (11 lb) pail.** Continue mixing for a minimum of 3 minutes until material has obtained a consistent homogeneous mix.

SAKRETE Gravity sets rapidly. Mix only an amount that can be placed and leveled within 15 to 20 minutes. If necessary, reduce the batch size while maintaining the same water:materials ratio. Do not add additional water or re-temper after initial mixing procedure. For overhead and vertical applications, adjust consistency by using less water to make a stiffer mix.

Placing: Mix and substrate temperatures should be maintained

between 5 °C (40 °F) and 30 °C (86 °F). Place SAKRETE Gravity in lifts of not more than 50 mm (2 inches). Consolidate by forcing against the edge of the repair area and continue placing material towards the centre. The top surface of each lift must have a 3 mm (1/8 inch) to 6 mm (1/4 inch) raked profile. Keep surface of each lift damp with fog spray, sprinkler hose or brush. Apply next layer within 15 to 20 minutes. When design depth is obtained, finish final placement to match surrounding surface texture.

CURING

Curing is essential to optimize the physical properties of SAKRETE Gravity and minimize plastic shrinkage. SAKRETE Gravity should be cured immediately after material has reached initial set. Continuously moist cure for a period of 24 hours. Alternatively, apply a water-based curing compound. Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds and low humidity.

TECHNICAL DATA

Working Time:	20 minutes
Set Time*:	25-45 minutes
Compressive Strength	1 Day 20 MPa (2900 psi)
	3 Day 25 MPa (3625 psi)
	7 Day 30 MPa (4350 psi)
	28 Day 40 MPa (5800 psi)

*The following data was obtained with material and ambient temperatures of 21 °C (70 °F).

PAINTING

Mortar must be fully cured (approximately 48 hours) and dry, before painting. Refer to paint manufacturer directions for application instructions.

CLEAN UP

Clean all tools with water immediately after use.

YIELD

5 KG (11 lb) pail yields approximately 1,140 cm² (1.2 ft²) at 2.5 cm (1 inch) thick.

PACKAGING

5 KG (11 lb) plastic pail

UPC

055226101055

STORAGE & SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened pails have a shelf life of 12 months.



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SAFETY PROCEDURES

CAUSES BURNS. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear safety glasses, protective clothing and dust mask. Use only in a well-ventilated area.

FIRST AID TREATMENT: Contains cement, when wet forms a calcium hydroxide solution. If swallowed call a poison control center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for at least 15 minutes. If on skin, rinse well with water. If on clothes remove clothes. If breathed in, move person to fresh air.

WEBSITE

For more information and other projects, visit us at www.sakretecanada.com or call us at 866-725-7383.

Warranty: This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade. [REV.0004_07/18/19]

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