

Polymer Fortified Large Format Tile Mortar



1420

Grey

○ SUPERIOR

R-FLEX LFT

Roberts® R-Flex LFT 1420 is a high performance, non-sag, non-slump mortar, specifically for thin or medium-bed, horizontal or vertical application for large-format tiles and stone, 16" (one dimension) or larger. It is formulated with a non-slumping feature that minimizes lippage and enhances leveling. R-Flex LFT can be applied for horizontal application up to 3/4" (19 cm) in medium bed or 1/4" (6 cm) in thin bed. R-Flex LFT meets and exceeds the requirements of ANSI A118.4 and ANSI A118.11.

Features:

- Premium-grade, polymer-modified, cement-based mortar for large format and heavy tiles and stones
- Non-sag/slump medium-bed and thinset for interior and exterior floor, wall installation
- Use to install most ceramic quarry, porcelain, marble, travertine, granite and slate tiles

Enviro Friendly: VOC: 0 g/L

Uses: Residential or commercial applications.

For the interior and exterior installation of absorptive, semi-vitreous and vitreous tiles.

Also recommended for ceramic, porcelain, marble, travertine, granite, slate and quarry, paver tiles. Roberts R-FLEX LFT is not recommended for any moisture sensitive stone such as green or black marble.

Substrates: Fully cured concrete, cement backer units, masonry cement block, brick, cement based self-levelling underlayments, CANPLY /APA rated exterior grade plywood and gypsum wall board (primed with R-Bond Liquid 1411), asphalt cutback adhesive*, vinyl asbestos tile (VAT) or vinyl composition tile (VCT)*, linoleum or non-cushioned vinyl sheet goods*, existing unglazed ceramic tile and cementitious terrazzo*.

*Recommendation is to follow Terrazzo, Tile & Marble Association of Canada's *Specification Guide*.

Conditions and Limitations: Do not use over hardwood, Luan plywood, particle board, chipboard OSB, cushion vinyl flooring, metal, and fiberglass plastic or similar materials. Installation over plywood is permitted up to light commercial traffic loads. Do not use over single layer plywood floor. Install

only at temperature between 8 °C and 35 °C and for at least 72 hours after application. In exterior installations, protect from rain at least for 72 hours and protect from freezing for at least 14 days after installation. Cure for 28 days before water immersion. For heavy service exterior, prolonged water immersion or severe freeze/thaw conditions, use Roberts 1410 R-Bond mixed with 1411 R-Bond Liquid.

Surface Preparation: Subfloors must be structurally sound, dry, flat, level and free of any and all substances (dust, adhesive residues, paint, sealers, etc.) that will interfere with the bonding capability of this product. Substrate must be mechanically sand scarified to completely remove all paint, loosely bonded toppings, loose particles and construction debris. Wood subfloors must be CANPLY/APA rated exterior grade plywood or similar, and of the proper thickness with the appropriate structural support to receive a ceramic tile installation.

TROWEL SIZE	ITEM #	APPROXIMATE COVERAGE
1/4 in. x 1/4 in. x 1/4 in. 	49915QC 49713QC 49725-1 10113QC	75–85 sq. ft. (7–8 m ²) per 50 lb. bag
1/4 in. x 3/8 in. x 1/4 in. 	49916QC 49714QC 10114QC	60–75 sq. ft. (5.5–7 m ²) per 50 lb. bag
1/2 in. x 1/2 in. x 1/2 in. 	49919QC 49720QC 49727-1	37–42 sq. ft. (3.5–4 m ²) per 50 lb. bag
3/4 in. x 9/16 in. x 3/8 in. 	49795QC	32–38 sq. ft. (3–3.8 m ²) per 50 lb. bag

Physical Characteristics and Application Properties

(21°C/ 70°F, RH 50%, variation in temperature and humidity may alter the results):

Pot Life: Approximately 3 hours

Open Time: 15 minutes

Working Time: 1 hour

Setting time before grouting: 8-16 hours for wall installation; 24 hours for floor installation

Final curing time for bond and compressive strength: 28 days for interior and exterior applications

Shelf life: One year when stored in a cool, dry area.

Shear Bond Strengths (ANSI 118.4):

Non-vitreous tile: >550 psi (3.75 MPa)

Vitreous tile: >320 psi (2.20 MPa)

Quarry to quarry: > 300 psi (2.06 MPa)

Quarry Tile to plywood: >180 psi (1.24 MPa)

Application and Installation: Pour 5-5.5 litres (1.3-1.45 U.S. gallons) of water into a clean mixing container and gradually add 22.7 kg (50 lb.) of powder. Using a slow speed drill (300 rpm), mix slowly to a smooth, creamy consistency. Wait 10 minutes then mix again to ensure product is completely mixed. Do not add more liquid than is recommended as this will change the characteristics of the product. If mixture becomes stiff within pot life, remix without adding liquid or mortar. Apply Roberts R-Flex LFT to the substrate using a suitable size trowel and spreading in a single direction. Place tiles firmly into the mortar by pushing tiles back and forth in a direction perpendicular to the trowel lines so tiles are seated into the mortar properly. Do not spread mortar over larger areas that cannot be tiled over before skinning occurs. This open time varies with temperature and humidity of the setting conditions. If the mortar skins over, scrape the mortar off the substrate and re-apply fresh mortar. Ensure proper coverage and transfer to the substrate and the tiles. Note: when installing absorptive tile or exterior commercial or wet applications, it may be recommended to back-butter tiles before installing into mortar. Remove any excess mortar from joint areas before it dries. A minimum of 2/3 of the tile depth should be free of mortar to allow for grout.

For most current and detailed product information and instructions, refer to Roberts R-Flex LFT 1420 product data sheet. Visit: www.robertsconsolidated.com

Curing and Grouting: Prevent all traffic until cured at least 24 hours before grouting. For applications where temperatures are constantly below 15° C, or where impervious tile is installed on impervious surfaces, extended curing time is recommended prior to grouting. For installation of tiles subject to water, cure for 28 days before water immersion.

Clean Up: With water while fresh.

Refer to material safety data sheet, www.robertsconsolidated.com and industry standards prior to installation for additional information. For installation questions that are not covered in this document please contact our Technical Services Department at (905) 791-4444.

Limited Warranty: Buyer assumes all risk of use, handling and storage of product not in strict accordance with the label, printed literature and industry standards. **This limited warranty excludes all other express or implied warranties including the warranties of merchantability or fitness for a particular use or purpose.** Any implied warranties arising by operation of law are limited to one year. Roberts will not be liable for any incidental or consequential damages. Some provinces do not allow these limitations or exclusions, therefore they may not apply. This warranty gives you specific legal rights and you may also have other rights which vary from province to province.



Available Sizes:

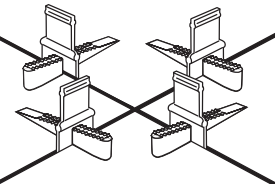
SIZE	PRODUCT #	UPC
50 lb. (22.7 kg) Bag	1420RB50	075378142058

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QEP® LASH®
Tile Leveling System

LASH®

LEVEL • ALIGN • SPACE • HOLD

For Perfect
Tile-to-Tile Leveling



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WARNING: EXISTING FLOORING AND ADHESIVES MAY CONTAIN ASBESTOS. Unless you have confirmation that the existing flooring system is not asbestos containing, do not sand, dry sweep, dry scrape, abrade, drill, saw, bead blast, mechanically chip or pulverize existing flooring or adhesive without taking all appropriate precautions. Refer to local, state and federal guidelines for treatment and removal of these products.

EXISTING PAINT MAY CONTAIN LEAD. Unless you have confirmation that the existing paint is not lead containing, do not sand, dry sweep, dry scrape, abrade, drill, saw, bead blast, mechanically chip or pulverize existing paint without taking all appropriate precautions. Refer to local, state and federal guidelines for treatment and removal of lead containing paint. You may also refer to www.epa.gov/lead.