

# LEVELQUIK® RS RAPID SETTING SELF-LEVELING UNDERLAYMENT



Engineered with  
CONTROLLED CURE  
TECHNOLOGY™

- Apply from featheredge to 1" (2.5 cm) thick
- Eliminates bond failure, mildew and crumbling of resilient flooring
- Install ceramic tile in 4 hours — floor coverings in 14 hours
- Rated for use on wood subfloors with joists up to 24" (61 cm) o.c.

## PRICE



## PRODUCT DESCRIPTION

LevelQuik® RS levels interior and exterior floors prior to the installation of ceramic tile, natural stone, resilient flooring, carpet, wood and parquet. Can be applied up to 1" (2.5 cm) thick in one pour. Seeks its own level in minutes. ASTM C627 rated for ceramic tile installations over wood subfloors with joists up to 24" (61 cm) o.c. With proper installation of the flooring system, the use of LevelQuik® RS can achieve an "Extra Heavy" rating for extra heavy and high impact use in food plants, dairies, breweries and kitchens. Formulated with Controlled Cure Technology™, LevelQuik RS eliminates installation problems of bond failure, crumbling, mildew and staining of resilient flooring due to free-moisture found in traditional underlayments. LevelQuik RS cures ultra-fast and develops high early strength for quick installations. Protected by MoldGard® Technology to resist mold and mildew growth.

## AREAS OF USE

- Concrete
- Backerboards such as WonderBoard® and EasyBoard®
- Exterior grade plywood (interior) with joists up to 24" (61 cm) o.c.
- Ceramic tile, pavers, brick
- Stone
- Concrete terrazzo
- Sheet vinyl, VCT
- Cutback adhesive (non-water soluble)

## USE UNDER THESE FLOOR COVERINGS

- Ceramic tile, pavers, brick
- Stone, terrazzo
- Carpet
- Wood, parquet

- VCT
- Sheet vinyl flooring
- Laminated flooring

## LIMITATIONS

- Do not use over lightweight concrete, gypsum underlayment, OSB, particle board, hardwood floors, parquet floors, or metal.
- Do not use when the temperature is below 50° F (10° C) or on sloped surfaces that require drainage.
- Not meant for use as a wear surface.

## SURFACE PREPARATION

### General Surface Preparation:

All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a good bond. Concrete must be fully cured and not subject to hydrostatic pressure. Concrete surfaces should accept water penetration. Smooth concrete surfaces, existing glazed tile, terrazzo, or polished stone should be roughened or scarified. Sheet vinyl must be well bonded and stripped of old finish.

### Plywood Substrates:

Plywood flooring, including those under resilient flooring must be structurally sound and meet all ANSI and deflection requirements. For questions about proper subfloor installation, call Technical Services. Installing self-furred plastic or metal lath is required over plywood subfloor installations including those covered with resilient flooring.

Cut self-furred plastic or metal lath to size. Edges can be overlapped or tightly "butt-jointed" depending on the overall thickness of the installation. Be sure to offset lath joints. Hold plastic lath flat to the substrate and secure with staple fasteners or roofing nails. Use 1" (2.5 cm) crown galvanized staples (min. 5/8" [16 mm] leg) or 1" (2.5 cm) hot-dipped galvanized roofing nails fastened every 3" (7.6 cm) around the perimeter and 6" (15 cm) in the field. Staple fasteners should penetrate



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substrate a minimum of 3/8" (9.5 mm). Crown staples are recommended as they will speed the installation. For a metal lath, fasten every 6" - 8" (15 - 20 cm) with fasteners that have a galvanized or corrosion-resistant coating. For 23/32" (18.2 mm) plywood subfloor with 24" (61 cm) o.c. joists, metal lath must be a minimum of 2.5 lbs./sq. yd. (1.13 kg /.83 M<sup>2</sup>).

#### Cutback Adhesive over Concrete:

Adhesive layers must be removed as they reduce mortar bond strength to cement surfaces. Use extreme caution as adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Adhesive residue must be wet-scraped to the finished surface of the concrete, leaving only the transparent staining from the glue. Do a test bond area first, to determine desirable results. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings" for further information.

#### Priming:

Prime all surfaces with LevelQuik® Latex Primer before application.

#### MIXING

Mix entire 50 lb. (22.68 kg) bag of powder with 6-1/2 quarts (6.1 L) of clean, cool water. Slowly add powder to water while mixing with a heavy-duty 1/2" (13 mm) electric drill and mixing paddle at 650 RPM. Thoroughly mix for 2 minutes to a lump-free consistency.

#### APPLICATION

Apply LevelQuik Primer with a paint brush, short nap roller or soft push broom. Apply a thin even coat and allow to dry to a clear film, about 2 hours. Pour or pump, then spread with a long-handled gauged spreader. Will seek its own level during the first 20 minutes. For featheredging and touch-ups, use a smoothing tool. Can be applied up to 1" (2.5 cm) thick in one application. If a second layer is required, install immediately after the first layer has set to a walkable hardness. If the first layer has dried over 12 hours, re-prime before second application. For installation on wood subfloors with joists up to 24" (61 cm) o.c., apply 1/2" (13 mm) thick layer of LevelQuik RS over 3/4" (19 mm) exterior grade plywood with self-furred plastic or metal lath installed.

#### CURING

Dries to a walkable hardness in 2 - 4 hours. 4 hours for ceramic tile and stone; 14 hours for impervious floor coverings. Drying time can vary with temperature and humidity. Test for moisture content before applying vinyl or wood flooring.

#### COVERAGE

50 sq. ft. per 50 lbs. (4.65 M<sup>2</sup>/22.68 kg) at 1/8" (3 mm) thickness.

#### CLEAN-UP

Clean with water before material dries.

#### STORAGE

6 months from date of manufacture in unopened package. Store in cool, dry location.

#### SAFETY

Contains Portland cement. Wear rubber gloves and eye protection. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes. Consult physician immediately. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

#### ORDERING INFORMATION

	ITEM CODE	SIZE	PACKAGE
USA	LQ50	50 lb. (22.68 kg)	Bag
Canada	CLQ50	50 lb. (22.68 kg)	Bag

#### TECHNICAL DATA

ASTM C627 rated for extra heavy use on wood subfloors with joists up to 24" (61 cm) o.c.

	LEVELQUIK® RS RAPID SETTING
Flow Time	10 minutes
Pot Life @ 70° F (21° C):	30 minutes
Initial Set, ASTM C191 @ 70° F (21° C)	90 minutes
Final Set, ASTM C191 @ 70° F (21° C)	3 1/2 hours
Walkable Hardness	2 - 4 hours (after final set)
Drying Time Before Covering Installation	4 hours — ceramic tile and stone 14 hours — impervious floor coverings
Compressive Strength, ASTM C109 1 day cure 28 day cure	2400 psi (168.7 kg/cm <sup>2</sup> ) 4400 psi (309.3 kg/cm <sup>2</sup> )
Flexural Strength, ASTM C109 28 day cure	1100 psi (77 kg/cm <sup>2</sup> )
Robinson-Type Floor Tester ASTM C627	Extra heavy rating

#### ADDITIONAL INFORMATION

TECHNICAL BULLETIN	CODE NUMBER
LevelQuik® RS Rated For Use On Plywood Subfloors	TB11

#### LIMITED WARRANTY

Custom Building Products ("Custom") warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's sole liability under this warranty shall be limited to the replacement of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's printed instructions. Custom makes no other warranties either express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.



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# LEVELQUIK® SELF-LEVELING UNDERLAYMENT RATED FOR USE ON PLYWOOD SUBFLOORS WITH 24" (61 CM) O.C. JOISTS

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LevelQuik® RS Rapid Setting Self-Leveling Underlayment has been rated by the Tile Council of America (TCA) for use as part of a ceramic tile installation system for plywood subfloors with 24" o.c. joists. With proper installation of the flooring system, the use of LevelQuik RS can achieve an "Extra Heavy" rating for extra heavy and high impact use in food plants, dairies, breweries and kitchens.

Custom® is recommending LevelQuik® RS, as well as LevelQuik® DP Deep Pour and LevelQuik® ES Extended Setting as an alternative to TCA installation methods F149-02 EGP (double layer of plywood) and F147-02 (uncoupling system) cited in their 2002 handbook. The double layer of plywood method requires two layers of 23/32" (18.2 mm) exterior grade plywood. The uncoupling system consists of installing a 3/8" (9.5 mm) minimum layer of plywood over the 23/32" (18.2 mm) plywood subfloor and installation of an uncoupling system such as Schluter® Systems' DITRA.

The installation system consists of a LevelQuik® Self-Leveling Underlayment installed at 1/2" (13 mm) thick over the 23/32" (18.2 mm) plywood subfloor with metal lath installed. The metal lath must be a minimum of 2.5 lbs./sq. yd. (1.13 kg/.83 M<sup>2</sup>). This system provides a more stable substrate on which to set tile than the double layer of plywood method and is less expensive and labor intensive than the uncoupling system.

Any Custom polymer-modified ANSI A118.4 mortar such as MasterBlend™ Standard Thin-Set Mortar mixed with Acrylic Mortar Admix or VersaBond® Fortified Thin-Set Mortar is recommended as the setting material for this system.

Please contact Technical Services or an architectural representative for specifics on achieving an "extra heavy" rating and further information.



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Seal Beach, CA 90740

Technical Services (800) 272-8786

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