



ROKSO R-EPOXY

PRODUCT CODE : 354

ROKSO R- Epoxy is a 3-component, 100% solids epoxy compound developed for sanitary applications.

ROKSO R- Epoxy can be used for setting and grouting ceramic and quarry tile, pavers, mosaics on horizontal and vertical surfaces. **ROKSO R- Epoxy** is an excellent setting material for moisture sensitive and resin backed stones like: black, red and green marbles. Use in commercial breweries, dairies, food processing facilities, distilleries, residential kitchens and bathrooms. It produces a high strength mortar that is stain resistant, impermeable, and shock resistant.

■ **Features:**

ROKSO R- Epoxy has exceptionally high chemical resistance to many acids, alkalis, solvents and household stains. It is used in a mortar as thin as 1/16" to 1/8" after tiles have been properly "beat-in." It is water cleanable before curing, nonflammable, and easy to work. R-Epoxy is not affected by prolonged contact with water, but does not form a waterproof membrane. Suitable backing, when properly prepared, include plumb and true masonry concrete, and cured portland cement mortar beds, brick, ceramic tile, glass mesh mortar units, steel, glass and fiberglass. Areas of particular use are in industrial plants, particularly chemical and food processing plants such as dairies, breweries, bottling plants, textile and metal finishing plants, where the use of acids, alkalis, solvents, strong detergents and other chemicals cause erosion and damage to the setting beds and grout joints. Other areas include hospitals, restaurants, food preparation areas and similar installations where clinical sanitation is maintained by harsh cleaning and countertops, back-splashes, tub and shower areas, sunken tile tubs and swimming pools requiring a completely waterproof system.

■ **Technical Data**

Applicable Standards: **ROKSO R- Epoxy** conforms to requirements for chemical-resistant, water cleanable tile setting and grouting epoxy found in ANSI A108.6 and A118.3.

■ **Properties**

ROKSO R- EPOXY TEST DATA

TEST	REQUIREMENT	VALUE
Water clean up	80 min	90 min
Initial set 70°	> 2 hours	> 5 hours
Shrinkage at 7 days	< 0.25%	< 0.25%
Sag (vertical)	None	None
Bond strength (psi) 14 days	> 1000	> 1200
Compressive strength (psi) 7 days	> 3500	> 7000
Tensile strength (psi) 7 days	> 1000	> 2000

■ Installation :

Surface Preparation: All surfaces on which tiles are to be set must be dry, structurally sound, and not subject to Temperatures below 65° F or above 95° F.

➤ substrates :

Cementitious Substrates: Surfaces must be dry and free of all efflorescence, grease, oil, dirt, dust, curing compounds, sealers, cut back residue, old adhesives, asphalt coatings and any other foreign matter. Waterproofing and crack isolation membrane must be approved in writing by an officer of the manufacturer. Cleaning may be accomplished via mechanical sanding, scraping, or chipping. Surfaces may be cleaned with muriatic acid if thoroughly flushed and neutralized. Smooth steel troweled concrete floor should be roughened to insure a superior bond. Dry porous concrete should not be dampened with water prior to the application of epoxy mortar. Instead skim-coat a thin layer of epoxy mortar first, then apply sufficient mortar to be notched.

➤ Plywood Substrates:

All wooden flooring, when placed over conventional floor joist or other systems should be of a design and thickness so as to maintain a substrate of deflection not to exceed 1/360 of span, including live and dead load. Further, the flooring to receive the **ROKSO R- Epoxy** should be exterior grade plywood only, secured with screw-type nails at 6" centers along the edges and 8" centers within the field, and glued where possible. Leave a gap of 1/4" between sheets of plywood and all materials which they abut. During application of epoxy to plywood surfaces, force epoxy between edges of plywood sheets to completely fill the gaps. In addition, all wooden surfaces must be for interior use only and protected from exposure to water.

➤ Miscellaneous Substrates:

Other substrates like steel, glass, and fiberglass must be free of all oils, coatings, dust and moisture. In addition, these surfaces should be roughened to insure a good bond. It is also essential that the existing surface be structurally sound and firmly attached to the supporting structure. See EJ171 in T.C.A. Handbook for detailed specifications.

➤ Expansion Joints:

Install in accordance with local building codes and TCNA Handbook method EJ171-09.

■ Mixing:

For all units, pour Part A & B into a clean mixing pail and mix thoroughly. Add the entire content of Part C and mix until uniform. If a power mixer is used, it must be 300 RPM or less to avoid entrapping air bubbles, which cause pinholes in the grout. Do not over-mix, as this will cause the epoxy to flash set.

■ Application :

For Setting: Spread mortar with flat side of trowel to key-in substrate. Then, reapply additional mortar to a depth sufficient to be notched with a suitable trowel that will leave only enough mortar to give 100% contact with back of tile and a subsequent mortar bed of 1/16" for ceramic mosaic tile, to 3/32" for quarry tile. Temperature affects time. Therefore, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. Approximate tack time is 30 minutes at 70° F. It is also required that tiles be "beat-in" to

NOTE: As a practical test it is recommended that three or more separate twelve inch square areas of tile be bonded to the Properly prepared surface with the actual tile and bonding materials that will be used on the finished installation. These should be allowed to cure for 3 – 7 days and then removed with a hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a problem exists.

■ **For Grouting:**

Allow tiles to set firmly before grouting (1-2 days). Mix the epoxy as described above. Apply grout using a hard rubber float filling all joints full and evenly with surface of tile. Remove all excess epoxy from surface of tile with the edge of the rubber float before it begins to set by holding the float at a 90° angle and pulling it diagonally across the joints. Clean the remaining grout off the surface Of the tile using clean water and a **Scotch-Brite®** pad and towel, or a stiff sponge with rounded edges. Special care should be exercised to avoid removing excessive material from the grout joint during cleaning as **ROKSO R- Epoxy** will be very soft.

NOTE: On unglazed tiles, sealing with a grout release may be necessary to prevent residue from being absorbed into tile.

ROKSO R-EPOXY GROUT COVERAGE CHART			
SQ.FT. PER GALLON			
MOSAICS	JOINT WIDTHS		
	1/8"	1/4"	3/8"
1" x 1" x 3/16"	0.19	0.19	0.35
2" x 2" x 1/4"	0.14	0.14	0.27
4" x 4" x 1/4"	0.07	0.07	0.14
WALL TILES	JOINT WIDTHS		
	1/8"	1/4"	3/8"
4-1/4" x 4-1/4" x 5/16"	92	48	32
6" x 6" x 1/4"	160	82	58
FLOOR TILES	JOINT WIDTHS		
	1/8"	1/4"	3/8"
4' x 8" x 1/2"	72	36	26
6" x 6" x 3/8"	106	58	40
6" x 6" x 1/2"	80	42	28
8" x 8" x 3/8"	142	72	58
12" x 12" x 3/8"	210	106	72
12" x 12" x 1/2"	156	80	54
12" x 12" x 5/16"	84	42	28
13" x 13" x 3/8"	228	116	78
16" x 16" x 3/8"	280	142	96
18" x 18" x 3/8"	312	156	106
20" x 20" x 3/8"	344	176	118
ROKSO R-EPOXY GROUT COVERAGE CHART			
SQ.FT. PER GALLON			
TROWEL SIZE	JOINT WIDTHS		
	3/16" x 1/4"		1/4" x 1/4"
	V-Notch		Square Notch
Pro Epoxy per Gal.	36		22

❖ The values obtained from the chart are based on an empty grout joint and it does not account for setting material left in the joint or waste. Actual grout usage may vary due to installation techniques and different types of tile surfaces used on the jobsite.

- **curing:** After application, protect setting and grouting material for 1 day against foot traffic and protect the grout from chemical (industrial cleaners) attack for the first 14 days. Initial maintenance for the first 7 days shall be done with clean water only. The day following grouting, if haze is present, it must be removed with clean water only.
- **Limitations: ROKSO R- Epoxy** should not be subjected to an environment above 250° F for any extended period of time. Although suitable for exterior applications, lighter colors will darken from UV exposure. Appropriate maintenance is based on the site environment. Assure compatibility of cleaning products and methods with tile, grout and setting material manufacturers.
- Remove cleaning residue and other contaminants to avoid damage from prolonged exposure to food, biological waste, industrial chemicals and aggressive cleaning solutions. Usage of “no rinse” cleaning solutions is not recommended.
- **Availability :**
ROKSO R- Epoxy is available at leading tile houses and construction distributors. Contact **ROKSO** or visit our web site for the name of the nearest dealer at www.roksoindia.com.
- **Warranty**
5 year, 10 year and Limited Lifetime warranties are available. Contact **ROKSO** Technical Services or visit our web site for specific warranty information.
- **Packaging: Colors: 22 colors available**
- 1 gallon unit consists of: **Part A – Liquid Epoxy Resin**
Part B – Liquid Hardener
Part C – Dry Coloured Aggregate
Commercial kits are available: 2 gallon kit
shelf Life: One year from manufacturing in sealed original container, when properly stored at room temperature, off the ground in a controlled, dry, heated area.

Manufactured in INDIA by
ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2015 CERTIFIED COMPANY

ADMN.OFFICE: 605,SAI JANAK CLASSIC,ABOVE MURLIDHAR SWEETS, NEAR FLYOVER BRIDGE, DEVIDAS LANE, BORIVALI (W) MUMBAI-92
REGD OFFICE : 202,MADHUVAN,SHRI KRISHNA COMPLEX,NR.SHRIRAM NAGAR,VIVA COLLEGE RD,VIRAR(WEST) DI :PALGHAR -401303 MS
E-MAIL : info@roksoindia.com / WEB SITE : www.roksoindia.com

The data & guidelines provided hereabove is based on compiled information which we believe reliable. Users are requested to test all the applications independently before commercial use. This data & informations are non binding & we donot assure any liability for failure of any guidelines or performance of the product as correct identification of the problem, quality of the other materials & on-site workmanship are factors beyond our control.