

Premium Pro - Epoxy Grout and Mortar

# UZIN XTRAGUARD

Colored, 100% Solids, Chemical Resistant Tile & Stone Grout Mortar

## DESCRIPTION:

UZIN XtraGuard is an advanced, 3 component grouting and setting mortar with excellent stain resistance, color retention, sag resistance, durability and UV resistance. The fine, impervious and water-repellent joint surface makes it very easy to maintain. UZIN XtraGuard is easy to mix, apply and clean up offering superior application productivity.

## SUITABLE ON:

- ▶ Most types of tile, glass and natural stone\*
- ▶ As a setting mortar under high compressive loads or with moisture sensitive tile or stone
- ▶ As a setting mortar and/or grout for areas subject to salt exposure such as sea salt, de-icing salt or salt water pools (as well as chlorinated pools & spas)
- ▶ For interior, exterior, water immersion and freeze-thaw environments
- ▶ Residential, commercial and industrial applications
- ▶ Bathrooms, showers, steam rooms, pools, spas, plazas, walkways, balconies, commercial kitchens, entries, recreation facilities, subways/ mass transit, veterinary clinics & kennels, car wash bays, as well as restaurant and food service areas
- ▶ Industrial applications such as dairies, food processing plants, bottling, wineries, breweries, bakeries
- ▶ Joint widths from 1/16" – 3/4" (1.5 – 20 mm)
- ▶ With radiant in-floor heating systems both hydronic & electric
- ▶ As a high performance grout for UZIN BalkuSlim® System
- ▶ Where chemical resistance is required (see chemical resistance chart at [www.us.uzin-utz.com](http://www.us.uzin-utz.com))
- ▶ Resistant to Enzymatic Cleaners
- ▶ For use where pressure washing conditions exists
- ▶ For re-grouting existing grout joints

\* see important notes

## COLORS:

brilliant white	101	whisper gray	102	ash	104	steel gray	109
charcoal gray	110	sandstone	113	taupe	116	khaki	115
coffee	127	sterling gray	130	natural gray	131	black	132



## FEATURES AND BENEFITS:

- ▶ UZIN "Xtra" Technology – Installer friendly application; easy to spread & clean-up, similar to cement based grout
- ▶ Fine textured, impervious joint surface – Superior stain, chemical & enzyme resistance, compatible with pressure washing equipment
- ▶ Exceeds ANSI A118.3 & A118.5 – 2 in 1 product (commercial & industrial); meets and exceeds requirements of both traditional epoxy and Furan grouts
- ▶ Unique proprietary formula – Easier application & clean up than traditional epoxy grouts; superior color retention
- ▶ Extended working time – Faster, easier to apply & clean than pre-mixed acrylic grouts during installation
- ▶ Stain & chemical resistant formula – For use in heavy duty commercial & industrial applications or direct exposure to many chemical substances (check chemical resistance chart)
- ▶ 3K epoxy grout formula – More durable than pre-mixed acrylic and cement-based grouts

## TECHNICAL DATA:

Packaging	1.9 Quart (2.1 L) 3 component System Weight 7.7 lb (3.5 kg)
VOC	< 5 g/L
Application temperature	65 – 75 °F (18 – 24 °C)
Ideal application temperature	50 – 90 °F (10 – 32 °C)
Mixing time	2 Minutes with a drill
Pot life	approx. 95 minutes*
Setting time / cure time	approx. 24 hours*
Ready for foot traffic	approx. 12 hours*
Chemically resistant	7 days*
Storage	Minimum 12 months on A+B; Minimum 36 months on C

\* At 70 °F (21 °C) and 65 % relative humidity



## SUBSTRATE PREPARATION:

Before application, check tile and joints for cleanliness and openness. Tile and joints should be clean and free from debris. Joints are recommended to be open to a depth of at least 1/3 of the tile thickness to allow for an adequate grout joint depth. Porous tile and stone may require pre-sealing prior to application. Some porcelain tile manufacturers recommend pre-treatment of tile prior to grouting. If in doubt, check with the supplier of the tile in advance and/or do a test area prior to application. Grout color samples are guides only. Actual shade and texture will depend on job site conditions, lighting, installation techniques and types of tile or stone used, and may vary from grout color chart, grout color chip or grout color swatch on product packaging. Some soft polished stones, delicate glazed tiles or glass tiles may be scratched using UZIN XtraGuard during installation. Apply in a small test area to determine results before grouting entire installation.

## Grout Coverage:

Grout Joint Size								
Joint Width	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
	1.5 mm	3 mm	4.5 mm	6 mm	8 mm	10 mm	11 mm	12.7 mm
Tile Size	Coverage							
1" x 1" x 1/4"	29,0	14,5	9,7	7,3	5,4	4,4	4,0	3,4
25 x 25 x 6 mm	2,7	1,4	0,9	0,7	0,5	0,4	0,4	0,3
2" x 2" x 1/4"	59,0	29,5	19,7	14,8	11,1	8,9	8,0	7,0
51 x 51 x 6 mm	5,5	2,8	1,8	1,4	1,0	0,8	0,8	0,7
2" x 2" x 3/8"	34,0	17,0	11,3	8,5	6,4	5,1	4,6	4,0
51 x 51 x 10 mm	3,2	1,6	1,1	0,8	0,6	0,5	0,4	0,4
3" x 6" x 1/4"	118,0	59,0	39,3	29,5	22,1	17,7	16,1	13,9
76 x 152 x 6 mm	11,0	5,5	3,7	2,8	2,1	1,7	1,5	1,3
3" x 12" x 3/8"	85,0	42,5	28,3	21,3	15,9	12,8	11,6	10,0
76 x 305 x 10 mm	7,9	4,0	2,6	2,0	1,5	1,2	1,1	0,9
3" x 16" x 1/4"	150,0	75,0	50,0	37,5	28,1	22,5	20,5	17,7
76 x 406 x 6 mm	14,0	7,0	4,7	3,5	2,6	2,1	1,9	1,7
4 1/4" x 4 1/4" x 5/16"	94,0	47,0	31,3	23,5	17,6	14,1	12,8	11,1
108 x 108 x 8 mm	8,8	4,4	2,9	2,2	1,7	1,3	1,2	1,0
4" x 8" x 3/8"	95,0	47,5	31,7	23,8	17,8	14,3	13,0	11,2
102 x 203 x 10 mm	8,9	4,5	3,0	2,2	1,7	1,3	1,2	1,1
4" x 12" x 1/4"	188,0	94,0	62,7	47,0	35,3	28,2	25,6	22,2
108 x 305 x 6 mm	17,5	8,8	5,8	4,4	3,3	2,6	2,4	2,1
4" x 16" x 1/4"	200,0	100,0	66,7	50,0	37,5	30,0	27,3	23,6
108 x 406 x 6 mm	18,6	9,3	6,2	4,7	3,5	2,8	2,5	2,2
8" x 8" x 3/8"	143,0	71,5	47,7	35,8	26,8	21,5	19,5	16,9
203 x 203 x 10 mm	13,3	6,7	4,4	3,3	2,5	2,0	1,8	1,6

Joint Width	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
	1.5 mm	3 mm	4.5 mm	6 mm	8 mm	10 mm	11 mm	12.7 mm
Tile Size	Coverage							
8" x 48" x 3/8"	242,0	121,0	80,7	60,5	45,4	36,3	33,0	28,6
203 x 1219 x 10 mm	22,5	11,3	7,5	5,6	4,2	3,4	3,1	2,7
12" x 12" x 3/8"	215,0	107,5	71,7	53,8	40,3	32,3	29,3	25,4
305 x 305 x 10 mm	20,0	10,0	6,7	5,0	3,8	3,0	2,7	2,4
12" x 24" x 3/8"	287,0	143,5	95,7	71,8	53,8	43,1	39,2	33,9
305 x 610 x 10 mm	26,7	13,4	8,9	6,7	5,0	4,0	3,6	3,2
13" x 13" x 3/8"	230,0	115,0	76,7	57,5	43,2	34,5	31,4	27,2
330 x 330 x 10 mm	21,4	10,7	7,1	5,4	4,0	3,2	2,9	2,5

Joint Width	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
	1.5 mm	3 mm	4.5 mm	6 mm	8 mm	10 mm	11 mm	12.7 mm
Tile Size	Coverage							
18" x 18" x 3/8"	322,0	161,0	107,3	80,5	60,4	48,3	43,9	38,1
457 x 457 x 10 mm	30,0	15,0	10,0	7,5	5,6	4,5	4,1	3,5
18" x 30" x 3/8"	403,0	201,5	134,3	100,8	75,6	60,5	55,0	47,6
457 x 762 x 10 mm	37,5	18,8	12,5	9,4	7,0	5,6	5,1	4,4
24" x 24" x 3/8"	430,0	215,0	143,3	107,5	80,7	64,6	58,7	50,8
610 x 610 x 10 mm	40,0	20,0	13,3	10,0	7,5	6,0	5,5	4,7
24" x 36" x 3/8"	516,0	258,0	172,0	129,0	96,8	77,5	70,4	61,0
610 x 915 x 10 mm	48,0	24,0	16,0	12,0	9,0	7,2	6,5	5,7

Coverage shown is for estimating purposes and based on an empty joint with no bonding mortar present.

For all tile sizes including octagon and hexagon, see our online Grout Coverage Calculator at [us.uzin.com/products/grout-coverage-calculator](https://us.uzin.com/products/grout-coverage-calculator).

## Setting Mortar Coverage:

Trowel Size:	Coverage Rate:
1/4" x 1/4" x 1/4" (6 mm x 6 mm x 6 mm)	11.5 SF per unit (1.06 m <sup>2</sup> )
1/4" x 3/8" x 1/4" (6 mm x 10 mm x 6 mm)	8.5 SF per unit (.81 m <sup>2</sup> )
1/2" x 1/2" x 1/2" (12 mm x 12 mm x 12 mm)	5 SF per unit (.46 m <sup>2</sup> )

ANSI 118.3 & 118.5 Performance Data:	7D Compressive Strength	8300 – 8500 psi
	Bond to Quarry	2000 – 2100 psi
	7D Tensile Strength	2600 – 2700 psi
	Thermal Shock	2000 – 2100 psi
	Modulus of Rupture	3800 – 3900 psi
	Absorption	0.3 %

## APPLICATION:

- Mixing:** Allow material to reach room temperature before use. Add hardener component B, base component A and coloured powder C to the supplied container and mix thoroughly for at least 2 minutes. It does not matter what order these components go into the container and mixed. Check sides and bottom edges of the mixing pail to ensure all parts are blended thoroughly. For best mixing results, mechanically mix with a mixing paddle and drill. If mixing by hand, use a margin trowel and mix vigorously. For larger applications, multiple units of A, B + C may be mixed in a larger mixing pail if desired.
- As a setting mortar:** Using a recommended notch trowel appropriate for achieving the correct backing transfer, apply the mortar to the substrate with the flat side of the trowel first (key coat). Then comb with the notched side to achieve uniform distribution of mortar in 1 direction.

Avoid trowelling in random “swirl” patterns. Place tile into the mortar and push tiles back and forth in a perpendicular direction to the trowel ridges. This allows for superior transfer and reduces voids behind the tile. Check mortar transfer periodically to ensure industry minimum transfer recommendations are achieved.

3. **Grouting & initial cleaning:** No special tools are required for XtraGuard. Using a standard or epoxy grout float, force UZIN XtraGuard into the joints. Care should be taken to ensure grout is compacted down into the joint and not simply floated lightly over the surface. Remove as much grout residue as possible working in small areas at a time and apply within arm’s reach. Wait at least 20-30 minutes before starting your rough wash. Then using a standard grout sponge (or sponge board) and a minimal amount of water, wipe the excess grout from the tile and lightly pass the sponge over the joints so they appear consistent. To minimize surface haze, change the wash water regularly ie. Every 1 – 2 x per kit. After cleaning, the grouted area must show only a thin film of water (avoid pooling or standing water). Clean tools immediately after use.
4. **Final cleaning:** The following day, it is possible that the surface may be a bit tacky and a thin epoxy haze may exist. This is normal. As a standard cleaning practice, we recommend a final cleaning at the 16 – 24 hour mark. The final cleaning should be done firstly with a diluted solution of UZIN XGC Cleaner (see PDS for details) and a nylon scrub pad. (for larger areas, the use of a floor maintainer is more productive). This will break down the epoxy haze in a reasonably quick process. Then final rinse the surface with a solution of dish detergent and water.

## IMPORTANT NOTES:

- ▶ Low temperatures will make the material thicker in application, but increase working and cure time. Higher temperatures will make the material more fluid in application, but reduce working and cure time. Immersing the A+B components in cold water before mixing will increase working time.
- ▶ Tile shall be installed in strict accordance with ANSI A108.5, TCNA (USA) and TTMAC (Canada) standards. If you are not familiar with industry standards, please contact these organizations. Tile failures occur and manufacturer’s warranties are void when industry standards are not respected.
- ▶ UZIN XtraGuard is water washable while fresh; Clean hands, tools and tile while still fresh. Any thicker cured material can be removed with heat gun or paint stripping solution.
- ▶ Protect grout from light foot traffic for 12 hours; Allow for at least 24 hours for indentations and wet exposure; 48 hours prior to heavy traffic (check setting mortar instructions for related exposure to heavy traffic). Protect from contamination, chemicals and construction dust and debris and immersion for at least 7 days.
- ▶ Provide for expansion and control joints as per TCNA Detail EJ171 (USA) or TTMAC Detail 301MJ (Canada).

- ▶ Actual coverage may vary depending on tile size, thickness, joint width and jobsite conditions.
- ▶ For highly textured tiles use a white scrub pad to help break down the epoxy residue on the tile surface.
- ▶ Great care has gone into UZIN’s grout selection tools to ensure quality in the color selection process. However, actual shade and texture may depend on job site conditions, lighting, installation techniques and types of tile or stone used, and may vary from grout color chart and grout color chip.
- ▶ For chemical resistance list, please see supplementary document at [www.us.uzin-utz.com](http://www.us.uzin-utz.com)
- ▶ Some soft polished stones, delicate glazed tiles, metal tiles or glass tiles may be scratched by UZIN XtraGuard during installation. Apply to a small test area to determine results before grouting entire installation.
- ▶ VOC: SCAQMD rule 1168: <5g>Ecode EC1 Plus listed for very low emission (TVOC measured)
- ▶ LEED: Meets LEED requirements in IEQ credit (4.1) Low Emitting Materials – Adhesives and Sealants (LEED v4)
- ▶ Although low odor and low VOC, some people have skin sensitivities to epoxy resins by contact or odor. See SDS for complete health and safety information. The use of skin & eye protection during application and cleanup is recommended.
- ▶ For technical assistance that pertains to this product, please contact UZIN’s technical service department at 1-866-505-4810. We are here to help you achieve the best work possible.

## PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Precautions: Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at [www.uzin.us](http://www.uzin.us).

**WARNING:** This product can expose you to chemicals including crystalline silica and titanium dioxide, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## DISPOSAL:

For disposal and recycling, follow the applicable laws and regulations. When possible, avoid or minimize waste generation. Do not allow the material to get into sewers, waterways or unlined ground surfaces.

## INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: < 5 g/L, compliant with SCAQMD Rule 1168

VOC emission: Conforms to the CDPH Standard Method (CA 01350) V1.2-2017; 0.5 mg/m3 or less TVOC emission.