



# Integra

## All-in-One Thin Set and Grout for Mosaics and Glass Tile Installations



### 2. Manufacturer

Parex USA, Inc.  
4125 E. La Palma Ave, Suite 250  
Anaheim, CA 92807  
866-516-0061  
www.merkrete.com

### 3. Product Description

**BASIC USE:** Integra is both a thinset and grout for installing mosaics and glass tile on walls and floors. Ideal for mosaics and glass tile, no concerns about thinset “bleed through” because the grout is the same color.

#### Features

- All-In-One thinset and grout
- Use on walls and floors
- Non abrasive
- Makes mosaics and glass tile installations fast
- Residential and commercial projects
- Only the addition of water is required

### 4. Technical Data

*Applicable Standards:* Integra meets or exceeds industry requirements ANSI A118.4 for Latex Portland Cement Mortar. Follow ANSI A108.5 for installation. ANSI A118.6 for Portland Cement Grout and ANSI A118.7 Polymer Modified Cement Grout. Follow the TCA Handbook and ANSI A108.10 Installation of Grout in Tile work. ANSI A108.14 Installation of paper-faced mosaic tile, ANSI A108.15 -2011 Alternate Method: Installation of paper-faced glass mosaic tile, ANSI A108.16 – 2011 Installation of paper-faced, back-mounted, edge-mounted, or clear film face-mounted glass mosaic tile.

ANSI 118.6	ANSI Requirements	Integra Grout Results
Flexural Strength	350 psi	>1100 psi
Tensile Strength 28 day	350 psi	> 390 psi
Compressive Strength 28 day	3500 psi	> 3500 psi
LEED v3 NC VOC	EQ Credit 4.1	Integra Mortar Results
VOC	< 65 g/l	0

#### Packaging:

25 lb. bag (11.34 kg) 96 bags per pallet | Colors: 8 standard colors

**Shelf Life:** Reference Parex USA Expiration Date of Products Technical Bulletin.

### 5. Installation

#### Thinset Installation

*Surface Preparation:* All surfaces must be between 40°F (4°C) to 95°F (35°C) and structurally sound (deflection not to exceed 1/360 of the span), dry clean and free from oil, grease, wax, paint, old adhesives, sealers and curing compounds. Any contaminants which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108 AN-2 “General Requirements for Sub-surfaces”. All substrates should be plumb and true, surface deviation should not exceed ¼” in 10’. Patching, leveling or areas requiring a mortar bed should be prepared using Mer-Krete’s Underlayments. Movement (Expansion) joints should be provided to comply with TCA method EJ 171. Caution; When considering the installation of glass mosaics, it is important that the glass tile manufacturer’s recommendations be followed.



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## Substrates

**Cement Substrates:** All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors should be roughed up using mechanical chipping, scraping or shot blasting. Dampen porous or dry concrete previous to installation of tile. Do not leave puddles or standing water.

**Cement Backer Board:** Follow cement board manufacturer's instructions.

**Mixing:** In a clean container, add approximately 4 pints (1.89 L) of cool clean water per 25 lb. bag (11.34 kg) of Integra. Mix thoroughly by hand or with a slow speed mixer to a smooth, thick, trowelable consistency. Allow mortar to slake for approximately 15 minutes, and then remix before using. Remix without adding additional water or powder. Mortar consistency shall be such that when applied with the recommended notched trowel to the substrate, the ridges formed in the mortar do not flow or slump. During use, stir mortar mix occasionally. Do not temper with additional water. Do not add latex liquid to Integra mortar.

**Application:** Apply mortar to the substrate with the flat side of the trowel, with enough pressure to firmly work into the surface. With a notched trowel, immediately follow with a heavier coat of material using the appropriate trowel and enough mortar to provide 100% coverage to the back of the tile. Do not spread more mortar than can be covered in 20 minutes or before the mortar skins over. It is advised that during the installation, remove a tile to insure the mortar has not skinned over and check the tile and substrate mortar coverage. Comb the mortar using an appropriate notched trowel in one direction, using the back of the trowel; flatten any notches of the mortar previous to placing the mosaic glass tile. Place tiles in mortar; beat in to insure proper coverage. Do not adjust tiles set in mortar after 15 minutes.

## Grout Installation

**Surface Preparation:** Glass tile must be firmly attached to a sound substrate. Grout joints should be free of all loose debris and contaminants. Caution should be used on tile, glass tile, marble, or stone that can be scratched. Follow tile manufacturer's recommendations. Test a small area prior to use. If recommended by manufacturer, or if there is a concern of scratching the finish material, use Merkrete's Versatile XF non sanded grout.

**Mixing:** To minimize color variation when using multiple containers of the same color grout with different batch numbers, dry-blend the powder prior to mixing with water. Combine approximately 4 1/2 pints (2.13 L) of cool clean water per 25 lb. bag (11.34 kg) of Integra with a margin trowel or a low speed mixer (less than 300 rpm) to a lump free, paste-like consistency. Let stand 10 minutes, re-mix before use. Periodic mixing during application keeps the grout workable but do not add additional water or additive once mixed. Consistency of mixing ratio between batches helps to maintain color shade uniformity. Discard grout when it becomes too stiff to work.

**Application:** Installation shall conform to the current method of ANSI A108.10. Holding a rubber grout float at a 45° angle, force grout diagonally into joints ensuring joints are completely filled. Remove excess grout using edge of float held at a 90° angle. Cleanup can begin as soon as the grout becomes firm enough to only be slightly indented when pushed. Use as little water as possible for grout cleanup. Excess water will cause variation in color and may cause shrinkage, cracks or pinholes. Smooth and level joints in a circular motion, remove excess grout from tile with a damp small pore grout sponge.

It is best to change cleaning water and rinse sponge frequently. Using clean water and sponge will enhance color uniformity.



Remove or buff grout haze from tile surface with a soft, dry cloth.

**Curing:** Protect fresh grout from damage for a minimum of 72 hours. Like other portland cement products, Merkrete Integra will cure in approximately 28 days.

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## INTEGRA THIN SET COVERAGE

RECOMMENDED NOTCH SIZE	
	
1/4" x 1/4" 6 mm x 6 mm	1/4" x 3/8" 6 mm x 10 mm
Ceramics and Mosaics	Quarry Tile, Rough Stone
APPROXIMATE COVERAGES – 25 LBS	
32 – 35 Ft <sup>2</sup> 3.0 m <sup>2</sup> – 3.4 m <sup>2</sup>	27 – 32 Ft <sup>2</sup> 2.5 m <sup>2</sup> – 3.0 m <sup>2</sup>

\* Coverage depends on towel notch size, substrate and job conditions

## How many square feet can I grout? Coverage:

TILE SIZE	JOINT WIDTH			
	1/8"	1/4"	3/8"	1/2"
2" x 2" x 1/4"	93	50	36	29
4" x 4" x 3/8"	119	61	43	33
4" x 8" x 3/8"	156	81	56	43
6" x 6" x 3/8"	179	89	61	47
6" x 8" x 3/4"	100	51	35	27
8" x 8" x 3/8"	227	119	81	61
10" x 10" x 3/8"	278	147	100	76
12" x 12" x 3/8"	357	179	119	89
15" x 15" x 3/8"	417	208	147	109
16" x 16" x 3/8"	500	250	167	132
18" x 18" x 3/8"	625	278	192	147
20" x 20" x 3/8"	625	313	208	167

The Joint Width number represents the number of pounds per square feet.

For more information visit our website at [www.merkrete.com/grout\\_calculator.shtml](http://www.merkrete.com/grout_calculator.shtml)

**Limitations:** Do not use Integra below 50° F (10° C) or above 95° F (35° C). Use caution: do not allow mortar to freeze for the first 72 hours. Do not soak tiles prior to installation. Integra must not be used to apply over asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, metal, glass, plastic, gypsum mortar beds or other unstable substrates. For installations that will be continually wet like swimming pools, fountains and gang showers, the completed installation should be cured a minimum of 14 days and allowed to dry before exposure to water.

For white or light colored marbles and transparent glass mosaics, use Integra D11 White mortar. Some dimensional stone tile like resin backed, black, green and red marbles may warp when installed with water-based setting materials. These water sensitive stone tiles should be installed with Merkrete ProEpoxy. Exterior applications should not be performed if rain is expected within 24 hours. Caution should be used on tile, glass mosaics, marble, or stone that can be scratched, stained, or damaged when grouted with pigmented sanded grouts. Follow tile manufacturer's recommendations. Test a small area prior to use.

Tile with high absorption, surface porosity, rough, textured surfaces, and/or certain types of porcelain may require sealing prior to grouting to prevent staining. Efflorescence; a crystalline deposit that sometimes appears in or on cement grout as a whitish powder or crust, can occur with any portland cement based product. If it occurs, remove with Sulfamic Acid cleaner or ANSI approved cleaner. Color variations can occur in portland cement products, including grout, differing tile types, tile porosity, jobsite conditions, application, and cleaning techniques. Color variations can be minimized by following directions and using as little water as possible for cleanup.

For use of Integra over additional substrates or situations not mentioned in these instructions, contact Merkrete Technical Services.

## 6. Availability

Merkrete Integra is available at leading tile houses and construction distributors. Contact Merkrete or visit our web site for the name of the nearest dealer at [www.merkrete.com](http://www.merkrete.com).

## 7. Warranty

5 year, 10 year and Limited Lifetime warranties are available. Contact Merkrete Technical Services for specific warranty information. Merkrete Systems warrants that this product meets applicable ANSI standards in force at the time of manufacture.

## 8. Maintenance

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. Technical Services

Merkrete Systems maintains technical field representatives available throughout the country. Call Technical Services at 800-226-2424 for the nearest representative.

## 10. Filing Systems

Merkrete architectural product information available either in catalog form, or electronically on our website at [www.merkrete.com](http://www.merkrete.com).

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