R-CRETE INC.

VBM-VP™

TM - R-Crete Inc.

Installation Systems

Masonry Veneer & Paver

Installation System

VBM-VP
Installation Systems

Description

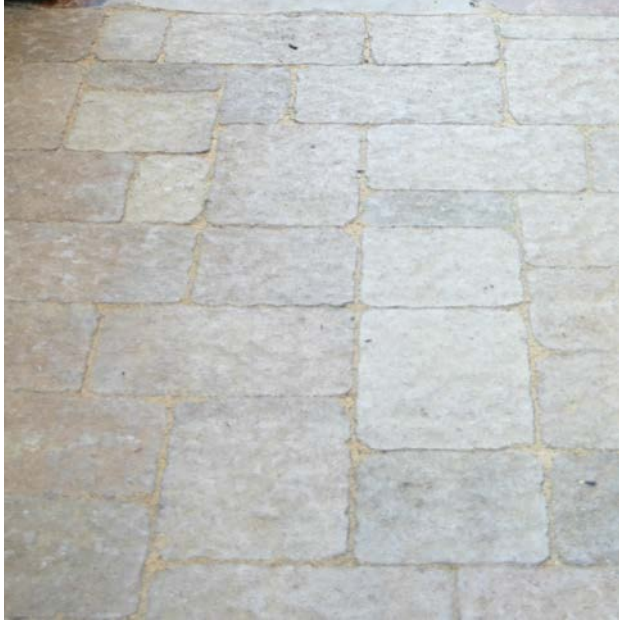
A broad selection of high quality products and installation specifications for the bonding of masonry veneers and pavers. The products and systems are based on over 15 years and 70 million square feet of installation experience with masonry veneers and pavers. The broad product selection meets the needs of many types of projects and masonry products.

Veneers

Manufactured Stone
Natural Stone
Thin Brick
Precast Concrete
Tile
Porecelein
Glass Tile

Pavers

Concrete Pavers
Natural Stone
Ceramic Tile
Precaste Concrete
Clay Brick
LFT (large Format Tile and Stone)



Long Term Performance

Inorganic Bonding System

History has proven, inorganic masonry veneers and pavers have life expectancies of not 15-25 years but 50-100 years and longer. The VBM-VP Installation System is composed predominately of polymer modified inorganic mortars. These enhanced mortars provide the long-term life expectancy of the masonry units being installed. We do offer organic componets to the system but they are reserved for special applications requireing elastomeric properties.

Water Protection

Efflorescence Control - Freeze/Thaw durability

From top to bottom VBM-VP Installation Systems improve the water resistance of the entire masonry assembly. All VBM Bonding Mortars and Mac Joint Grouts have some efflorescence reducing properties. Most are highly water repellant and provide excellent efflorescence reduction. The high water repellency of the bonding mortars and grouts significantly improves the durability of the entire masonry assembly.

Color Matters

The joint grout/pointing mortar color and texture have a significant effect on the overall appearance of all masonry veneer and paver installations. We offer a broad selection of standard colors and unlimited special orders. The VBM-VP System includes joint grouts / pointing mortars with course masonry sand and fine silica sand. All of our products include efflorescence reducing additives and most are highly water repellant. They combine high strength, durability, and low shrinkage for a wide variety of joint sizes and conditions.

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Advantages

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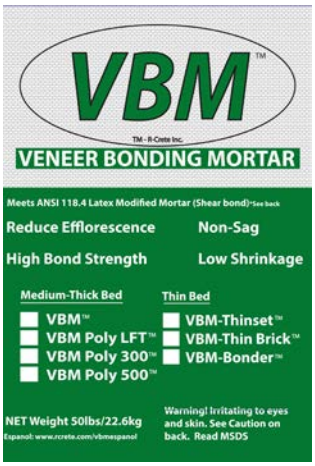
Bonding Mortars

Medium - Thick Bed



VBM-Poly 500

A premium quality, medium-thick bed, polymer modified bonding mortar exceeding the shear bond strengths and the freeze thaw requirements of ANSI 118.4*. It also meets ASTM C270*-Type S-Property Specifications. It provides exceptional non-sag, tack, bond strengths and is highly water repellant. VBM-Poly 500 is recommended for the most demanding projects, especially paver installations with vehicle traffic.

VBM-Poly 300

A high quality, polymer modified, medium-thick bed bonding mortar. It meets ASTM C270* Type S - Property specifications and the shear bond and freeze thaw requirements of ANSI 118.4*. It has great non-sag, high bond strengths and good water repellant properties. It has slightly lower bond strengths, tack and water repellant properties than VBM-Poly 500 but far exceeds the requirements of most projects and is the work horse of the polymer modified medium-thick bed bonding mortars.

VBM-Poly LFT

A polymer modified medium-thick bed bonding mortar for Large Format Tile, stone and similar veneers and pavers. With water retentions and tack similar to thin set mortars, it can be used for thin and medium to thick bed applications. It has exceptional non-sag properties. VBM-Poly LFT meets ASTM C-270* - Property Specification and ANSI 118.4* shear bond requirements. VBM-Poly LFT is less water repellant than VBM-Poly 300 or 500 but still provides water and efflorescence resistance properties.

VBM

Our most economical medium-thick bed bonding mortar. It meets ASTM C-270*-Property Specifications and ANSI 118.4*- Shear bond requirements. The bond strength is typically stronger than the substrates. Although not as water repellant as the poly VBM products, it does contain efflorecence reducing properties. It has excellent non-sag, bond strengths, lower shrinkage and workability. It is recommended for moderate usage conditions.

*Modified for medium bed (tile).

Thin Bed

VBM-Bonder

A premium quality, polymer modified thin set bonding mortar with exceptional non-sag, water repellant and high bond strengths. VBM Bonder exceeds ANSI 118.4* shear bond strength and freeze thaw requirements. It is suitable for installation of a wide variety of large masonry veneers and pavers in heavy duty environments. The tack, bond strength and impact resistance make it the prefered bonding mortar in high traffic or extra heavy duty requirements.

VBM-Poly ThinBrick

A polymer modified thin set bonding mortar with good non-sag, moderate water repellant properties and high bond strengths. The polymer modification, bond strengths and water repellant properties are lower than VBM bonder, however, it still far exceeds the shear bond strength requirements of ANSI 118.4*. It is recommended as an economical bonding mortar for thin brick and similar masonry and tile veneers.

VBM-Thin Set

Our most economical polymer modified thin set bonding mortar. The bond strengths exceed ANSI 118.4*. It has excellant non-sag properties. Bond strengths are typically stronger than the substrate or veneer. The water repellant properties are less than VBM Bonder and VBM-Poly Thinset but it still contains efflorescence reducing properties.

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Joint Grouts

Pointing Mortars

Wide Joints (1/4” - 4”)

Mac Mortar–Premium

A premium quality, polymer modified, Type S masonry mortar designed for joint grouting applications of masonry veneers and pavers. The polymer modification provides added flexural bond strength, low shrinkage, stain resistance, efflorescence protection and water repellant properties. It is recommend for the most demanding application conditions. All Mac Mortars use coarser masonry sand. It meets ASTM C-270* -Type S - Properties Specifications.

Mac Mortar-Plus

A high quality, water repellant, Type S masonry mortar designed for joint grouting masonry veneers and pavers. It is highly water repellant and provides excellent efflorescence reducing properties, stain resistance, compressing strength, and low shrinkage. The water resistance also protects color integrity. It is recommended for most veneers and pavers with pedestrian traffic and light vehicle traffic. It meets ASTM C-270* Type S – Property Specifications. All Mac Mortars are made with coarser masonry sand.

Mac Mortar

A high quality masonary mortar meeting ASTM C-270* Type S - Property Specifications. It does not have the high level of water repellence of Mac Mortar-Plus but still includes efflorescence reducing properties. Mac Mortar has good work ability, strengths, and low shrinkage. It is recommended for most veneers and paver applications with pedestrian or light vehicle traffic. All Mac Mortars are made with coarser masonry sand.

Narrow Joints (1/8” - 5/8”)

VP Joint Grout – Premium
VP Joint Grout

Are high quality, polymer modified cement mortars for joint grout applications requiring a fine sand (1/8” - 5/8”). VP Joint Grout-Premium has the highest level of polymer modification and is recommended for the most demanding applications - Pavers with vehicle traffic. Premium offers the greatest water repellance and efflorescence protection. Both Products provide a high strength, low shrinkage, and stain resistant joint grout. For greater stain resistance and flexural strength, part or all of the mixing liquid may be replaced with R-AcrylicAd. VP Joint Grout meets the compressive strength requirements of ANSI 118.6 and VP Joint Grout-Premium meets the requirements of ANSI 118.7 - Compressive strength and water absorption.

ACRA600 - Accel-R-Aid

Accelerating additive for Bonding Mortars

Color

All VBM Bonding Mortars are avaiable in grey and special order colors

Base Mortars

Mac Scratch-N-Brown–Premium

A premium quality, polymer modified, high strength cement mortar designed as a scratch and brown coat. Mac Scratch-N-Brown–Premium provides a much stronger, water repellant base for VBM Mortars than field mixed cement plasters. It has low shrinkage and excellent crack resistant properties. Meets ASTM C-270* Type S - Property Specifications.

Mac Scratch-N-Brown–Plus

A high strength, water repellant cement plaster designed as a scratch and brown coat. Mac Scatch-N-Brown-Plus provides a much stronger, water repellant base for VBM bonding mortars than field mixes utilizing plastic cement. Meets ASTM C-270* Type S.

Mac Scratch-N-Brown

Provides a good balance between performance and economy. Mac Scratch-N-Brown has low shrinkage, high strength and moderate efflorescence protection. Meets ASTM C-270* Type S - Property Specifications.

Deck Mud-Poly

A premium quality, polymer modified, dry pack mortar used as a leveling thick bed mortar for paver installation. The polymer modification provides added flexural strengths and impact resistance. It is the product recommended for the most demanding, extra heavy duty applications. Deck Mud-Poly has very high compressive strengths, water repellant and efflorescence control. The water repellency provides resistance from water migration from the substrate into the paver installation.

Deck Mud-Plus

A high quality, water repellant, thick bed mortar designed as a leveling bed beneath paver installations. Deck Mud-Plus is applied as a dry pack mortar. It has high compressive strengths, water repellant and efflorescence protection to the paver installation. The water repellency provides resistance from water migration from the substrate into the paver installation.

Deck Mud

A blend of cement and sand dry pack mortar. A high strength mortar bed for VBM Bonding mortars

*Modified - Cure per ANSI 118.1

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Water Barriers \ Accessory Products

R-Lastic

R-Lastic is an exceptionally versatile elastomeric coating. It is used as an organic, flexible bonding adhesive, waterproof coating, crack isolation membrane, and as an air barrier coating. All Poly VBM mortars bond well to R-Lastic. It is recommended for special bonding conditions such as to wood, metal, or conditions requireing a high degree of flexibility - precast wall caps, wainscot etc.

R-Flex Ad

A highly flexible, latex additive for VBM bonding mortars and Cemcoat Seal. R-Flex-Ad produces exceptionally flexible mortars when used in lieu of water as the mixing liquid. A dampproof, elastomeric cement coatings is produced when mixed with Cemcoat Seal or VBM Bonder. R-Flex Ad is not recommended for joint grouts as it will change color.

R-Acrylic *Ad*

A water based acrylic additive for addition to cement mortars and grouts. When added to joint grout mortars it significantly improves flexural bond, water resistance, stain resistance and impact resistance. It is recommended for heavy duty applications. R-AcrylicAd is a harder polymer than R-Flex-Ad and is color stable for long term performance.

J-4 R-Repel Aid

An integral water repellant cement additive. It is suggested for addition to concrete slabs on grade, retaining walls and fill grout for concrete block. Addition to concrete bases in paver applications will significantly protect the entire assembly and reduce water migration from the substrate and efflorescence.

Cemcoat Seal

A polymer modified, cement based, dampproof coating for concrete and concrete block. This cement coating chemically bonds to cement substrates and may be bonded to by polymer modified VBM mortars. It may be mixed with only water or R-FlexAd for extra flexural properties and water resistance.

Silox-PS2

A water based, silane-siloxane penetrating sealer for masonry veneers and pavers. It penetrates and forms a chemical bond with the inorganic masonry to provide long term protection. It has little to no effect on the color or appearance of the masonry unit. Silox-PS2 is sold as a concentrate and is diluted on the jobsite.

Silica Shield-Primers

Are water bssed, inorganic silicate primers-hardners for concrete, concrete masonry, stucco color coats, cement scratch & brown coats and some natural stone.
#1- Potassium #2- Lithium #3- Polymer Modified

Silica Shield-Sealer A

Silica Shield-Sealer A is modified silicate sealer that hardens and seals sand based stone and masonry products.

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Installation Guide

General

The recommendations listed below are a general guide. For specific product application and limitations see the appropiate product data sheet and specifications related to these details. Follow all local building codes.

Quality Control

Always test the suitability of the products and the installation techniques prior to installation. Test bonding mortars by installing the masonry unit, then remove the unit within 1 minute after installation. The mortar should have equal contact to the substrate and to the masonry unit, 100% coverage. Install joint grouts using the technique and conditions expected on the job. Different tooling techniques, weather, and job conditions can dramatically alter the color and apperance. Test before, during, and after.

Choosing the right product

Choosing the right product for installing any masonry system is the first important step for a successfull long term application. Pavers installed on a residential patio or driveway will be subject to completely different condtions than pavers installed on a comercial project or city street. Evaluate the conditions of the project, the masonry unit, and substrate to choose the best products for your project. The VBM-VP Installation System provides one of the broadest selections of products to meet the needs of many different projects

Installation

Substrates - The substrate must be structurally sound and conform to good engineering practices. Substrate deflection under all live, dead and impact loads, including concentrated loads must not exceed L/360 for thin bed installation or L/480 for thick bed stone installations, where L= span length. Installations shall be in accordance with International Building Code, ANSI, CBC and local building codes. Movement joints shall be brought through mortar and veneer to the surface. **All surfaces must be sound, clean, and free from any dirt, oil, paint, bond breakers, efflorescence or any contaminants which may hinder bond.**

Installation

SUITABLE SUBSTRATES
- Concrete (prepared)
- Concrete Masonry
- Cement Plaster
- Cement Mortar Beds
- Gypsum Board (Dry Interior Walls Only)
- Existing Ceramic Tile and Marble (prepared)
- Exterior Grade Plywood (Interior only)
- Approved Cement Backer Board (prepared)
- Metal (R-Lastic only)

Poured in place concrete and Tilt up concrete (Prepared) — Smooth concrete must be roughened. This is best achieved by removal of the surface layer by bead blasting, grinding or equivalent. High pressure washing is not adequate for complete removal of bond breakers or release agents.

Concrete block (Untreated) – May be directly adhered to or lath and plaster may be attached.

Wood or steel studs – Shall receive an approved sheathing, lath and plaster.

Lath and Cement Plaster – Lath and cement plaster shall conform to IBC, CBC, ASTM guidelines and veneer manufactures requirements. Allow to cure 24 hours prior to application. We recommend one of the Mac Scratch N Brown mortars to provide a high strength, water resistant plaster substrate.

Cement backer board (Prepared) – A scratch coat of VBM thin bed mortar must be used on the cement backer board. Application shall be approved by the stone or brick manufacturer. All joints must be taped with fiberglass (or equal) tape and VBM thin bed mortar, R-Lastic or equal. Consult cement backer board manufacturer for specific installation recommendations and limitations.

Special Bonding Conditions
Metal / Metal Flashing - All bond inhibitors must be removed. Test prior to installation. Use R-Lastic as the elastomeric bonding adhesive.
Wall Caps, Silcaps - For conditions requiring a highly flexible bond. Use R-Lastic as the elastomeric bonding adhesive, primer or add R-Flex*Ad* to the bonding mortar.

Primers: Silica Shield primers may be used to densify some substrates such as: sand stone, stucco color coats, stucco base coats, or masonry. Due to the varying nature of the substrates they should be used strictly after extensive testing. They may also be used for dampproofing properties
Water Barriers - Water barriers shall be as required by local building codes, and specifications. While R-Lastic may be used as an air and water barrier in the bonding system similar to some manufactures systems, we recommend all air and water barriers be used behind the bonding system. The VBM - VP Installation System recommends the bonding system be composed of our inorganic bonding mortars except in special bonding circumstances.
Mixing - See Individual product data sheets for specific mixing instructions. Do not over mix or over water. High air and water content will reduce strengths.

Bonding - See Individual product data sheets for specific bonding instructions. All bonding mortars must be firmly pressed onto the substrate and the masonry unit. 100% coverage.

Joint Grouts - See Individual product guides for specific grouting instructions. Use the same water, technique and conditions to achieve color and finish consistancy. Color can change dramatically under differing conditions.

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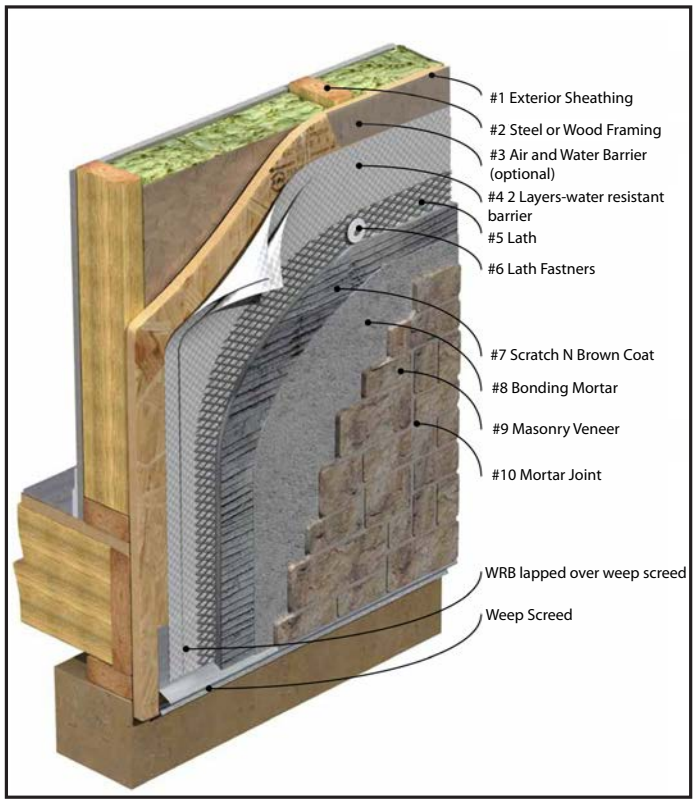
Detail Drawings



Stud - Exterior Wall

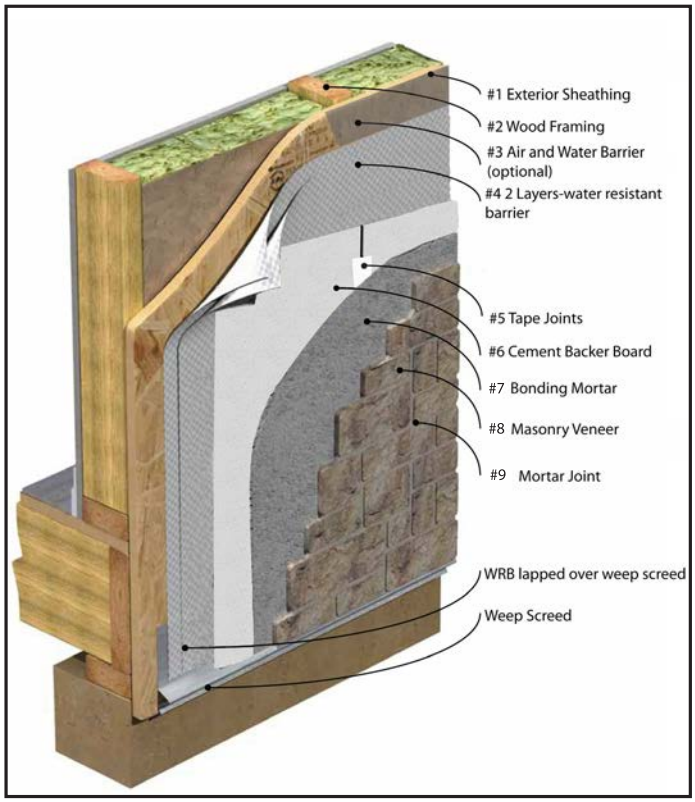
Lath - Cement Plaster Base

1. Exterior sheathing
2. Wood studs / Steel Studs
3. Air and Water Barrier - (Optional) - R-Lastic
4. 2 layers water resistant barrier - per specifications and code
5. Lath
6. Lath Fasteners
7. Scratch-N-Brown Coat - (Options)
   - Mac Scratch N Brown -Premium
   - Mac Scratch N Brown-Plus
   - Mac Scratch N Brown
8. VBM Bonding Mortar - (Options)

Thin bed	**Medium-Thick Bed**
VBM Bonder	VBM-Poly 500
VBM Poly Thinbrick	VBM-Poly 300
VBM Thin Set	VBM-Poly LFT
	VBM

8. Adhered Masonry Veneer
9. Joint Grout (Options)

Masonry sand (>3/8)	**Fine Sand (1/8-5/8)**
Mac Mortar-Premium	VP Joint Grout-Premium
Mac Mortar-Plus	VP Joint Grout
Mac Mortar	



Stud - Exterior Wall

Cement Backer Board Base

1. Exterior sheathing
2. Wood studs / Steel Studs
3. Air and Water Barrier - (Optional) - R-Lastic
4. 2 layers water resistant barrier - per specifications and code
5. Taped Backer Board Joints
6. Approved Backer Board - Exterior Grade
7. VBM Bonding Mortar - (Options)

Thin bed
- VBM Bonder
- VBM Poly Thinbrick
- VBM Thinset

8. Adhered Masonry Veneer
9. Joint Grout (Options)

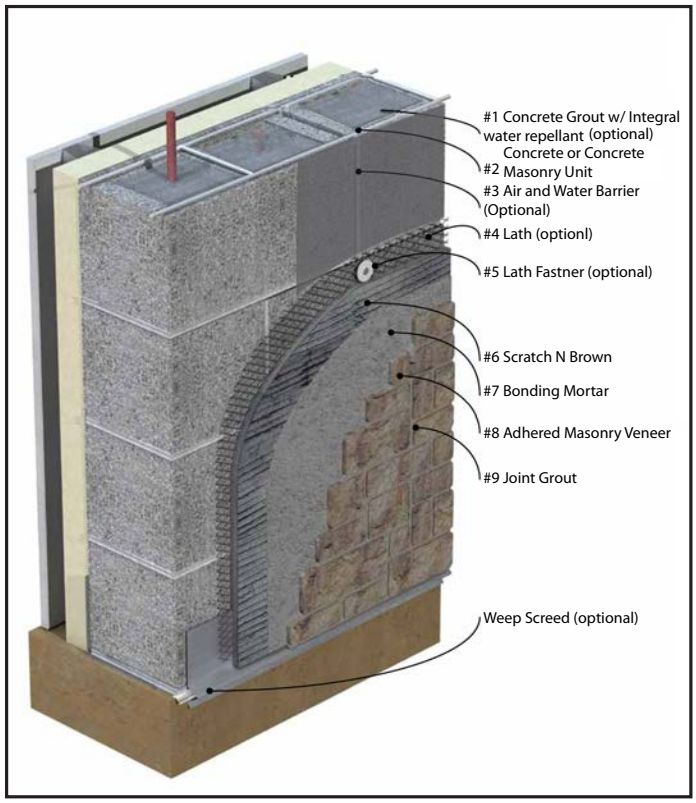
Masonry sand (>3/8)	**Fine Sand (1/8-5/8)**
Mac Mortar-Premium	VP Joint Grout-Premium
Mac Mortar-Plus	VP Joint Grout
Mac Mortar	

Stud - Interior Wall

Cement Backer Board Base

Water Resistant barriers may be eliminated in areas Not exposed to water

Detail Drawings



Concrete or Concrete Block

Exterior Wall

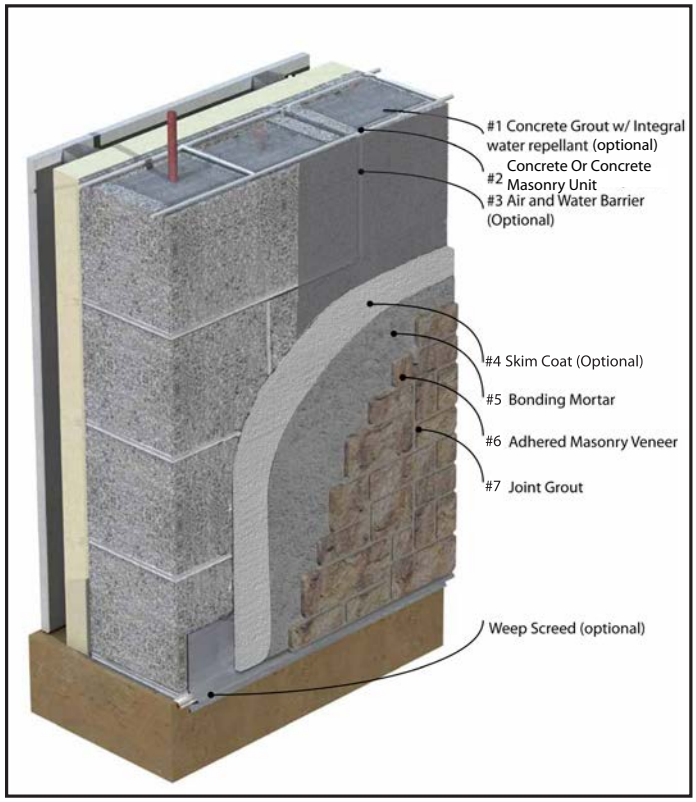
Lath-Cement Plaster Base

#1 Concrete or Concrete Grout - with J4 R-Repel Aid (Optional)
#2 Concrete or Concrete Masonry Unit
#3 Air and Water Barrier - (Options)
-R-Lastic -Silica Shield Primer #2 or #3
-Cemcoat Seal -2 layers WRB or specifications
#4 Lath 3.4# galvanized diamond wire lath
#5 Lath Fastener - Type and spacing per ASTM C-106.3
#6 Scratch N Brown - (Options)
- Mac Scratch N Brown - Premium
- Mac Scratch N Brown - Plus
- Mac Scratch N Brown
#7 Bonding Mortar - (Options)

Thick Bed	Thin Bed
VBM Poly - 500, 300, LFT	VBM Bonder
VBM	VBM Poly Thinbrick
	VBM Thinset

#8 Adhered Masonry Veneer
#9 Joint Grout - (Options)

Masonry Sand (>3/8)	Fine Sand (1/8-5/8)
Mac Mortar - Premium	VP Joint Grout - Premium
Mac Mortar - Plus	VP Joint Grout
Mac Mortar	



Concrete or Concrete Block

Exterior Wall

Direct Adhered

#1 Concrete or Concrete Grout - with J4 R-Repel Aid (Optional)
#2 Concrete or Concrete Masonry Unit
#3 Air and Water Barrier - (Options)
-R-Lastic -Silica Shield Primer #2 or #3
-Cemcoat Seal -2 layers WRB or specifications
#4 Skim Coat (Optional)
#5 Bonding Mortar - (Options)

Thick Bed	Thin Bed
VBM Poly - 500, 300, LFT	VBM Bonder
VBM	VBM Poly Thinbrick
	VBM Thinset

#6 Adhered Masonry Veneer
#7 Joint Grout - (Options)

Masonry Sand (>3/8)	Fine Sand (1/8-5/8)
Mac Mortar - Premium	VP Joint Grout - Premium
Mac Mortar - Plus	VP Joint Grout
Mac Mortar	

VBM-VP
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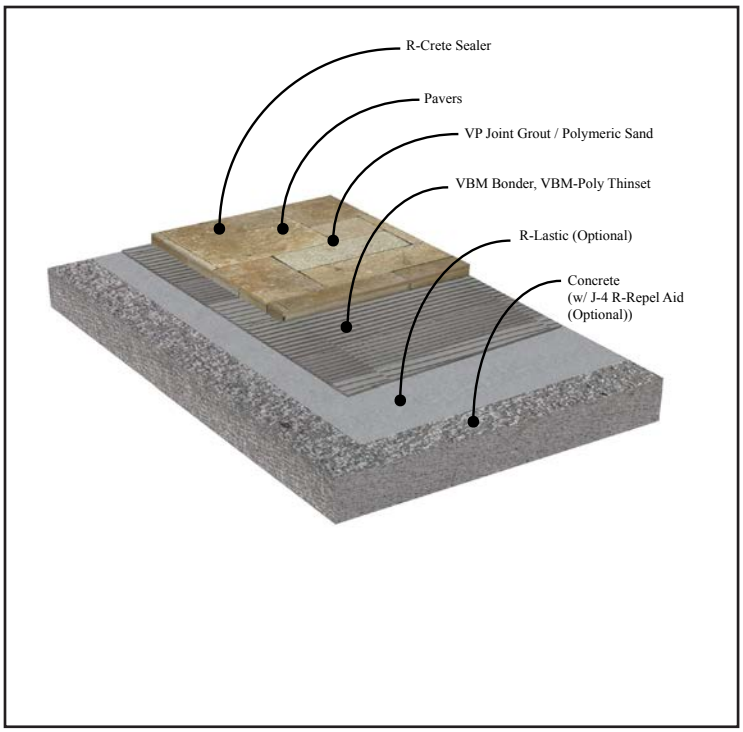
Detail Drawings

Pavers Bonded to Concrete (Thin Bed <1/2")

Concrete Pavers - Natual Stone - Large Tile
Precast Concrete - Clay Brick



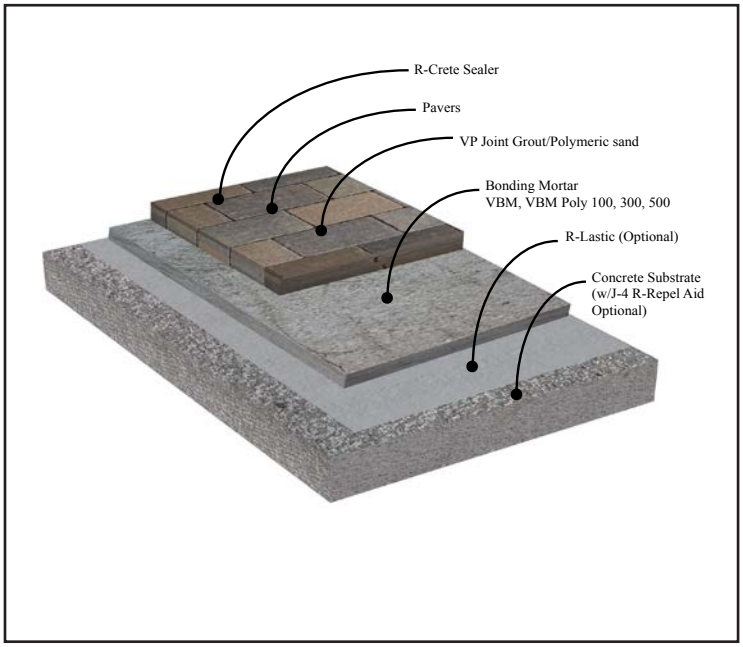
#1 R-Crete Sealer - Silox PS-2; Silica Shield or approved equal
#2 Paver - Concrete; Stone; Tile; Precast Concrete; Clay Brick or other
#3 Joint Grout (Options)

Masonry sand (>3/8)	**Fine Sand (1/8-5/8)**
Mac Plus-Premium	VP Joint Grout-Premium
Mac Plus	VP Joint Grout
Mac Mortar	

#4 Thin Bed Bonding Mortar (<1/2") (Options)
Thin bed
VBM Bonder
VBM Poly Thinbrick
VBM Thinset
R-Lastic (Elastomeric Adhesive)
#5 Anti-Fracture (optional) - R-Lastic
Do not use when subject to water migration from the slab.
#6 Concrete Base - (optional - with J-4 R-Repel Aid water repellant and efflorescence reducer)
*See Product Data Sheet for Installation Instructions.

Pavers Bonded to Concrete (Medium Bed 1/2" - 3")

Concrete Pavers - Natual Stone - Large Tile
Precast Concrete - Clay Brick



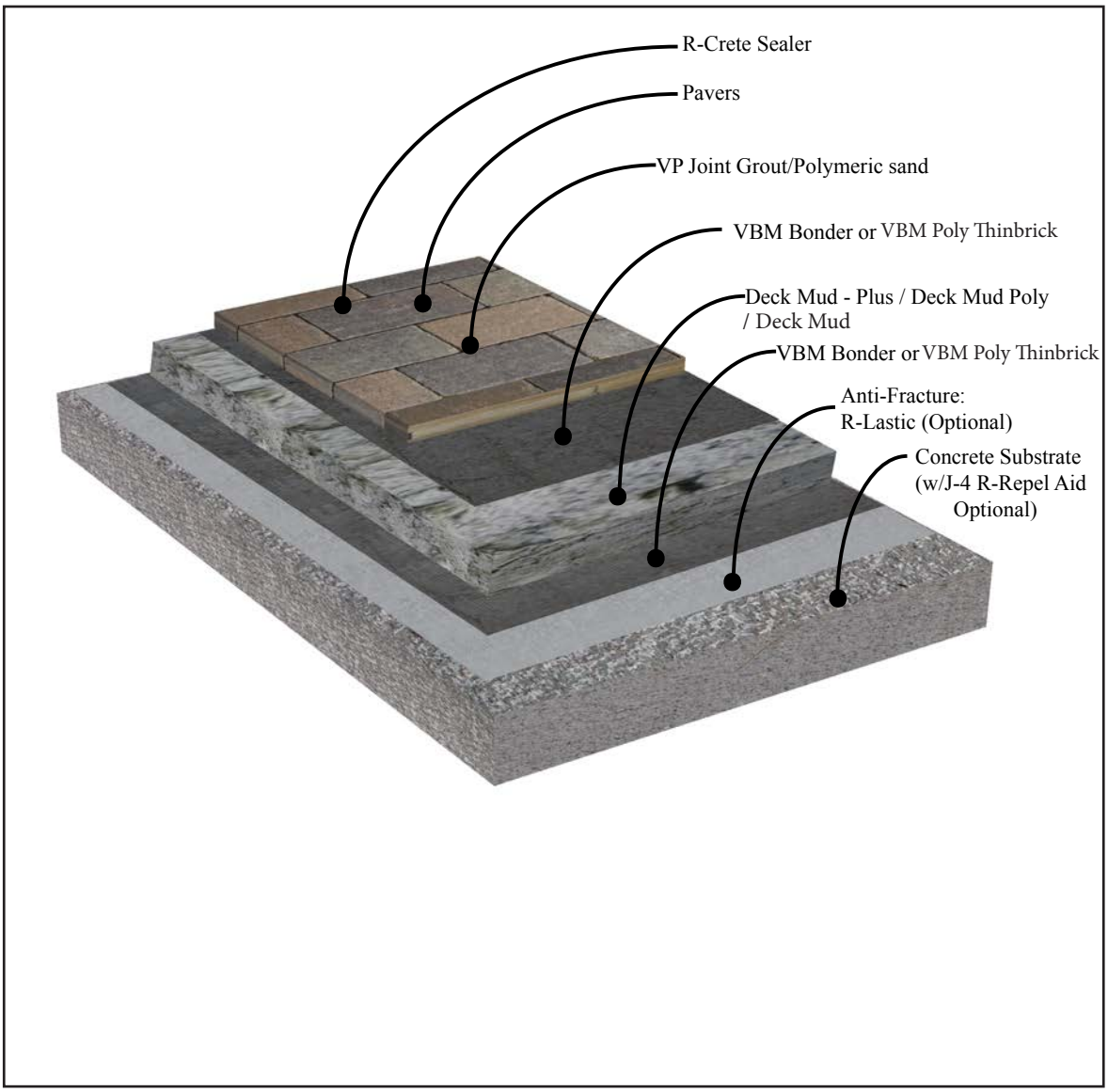
#1 R-Crete Sealer - Silox PS-2; Silica Shield or approved equal
#2 Paver - Concrete; Stone; Tile; Precast Concrete; Clay Brick or other
#3 Joint Grout (Options)

Masonry sand (>3/8)	**Fine Sand (1/8-5/8)**
Mac Plus-Premium	VP Joint Grout-Premium
Mac Plus	VP Joint Grout
Mac Mortar	

#4 Medium Bed Bonding Mortar (1/2" - 3") (Options)
Medium Bed
VBM-Poly 500
VBM-Poly 300
VBM-Poly LFT
VBM
#5 Anti-Fracture (optional) - R-Lastic
Do not use when subject to water migration from the slab.
#6 Concrete Base - (optional - with J-4 R-Repel Aid water repellant and efflorescence reducer)
*See Product Data Sheet for Installation Instructions.

Pavers Bonded to Concrete (Thick Bed 1" - 6")

Concrete Pavers - Natual Stone - Large Tile - Precast Concrete - Clay Brick



#1 R-Crete Sealer - Silox PS-2; Silica Shield or approved equal
#2 Paver - Concrete; Stone; Tile; Precast Concrete; Clay Brick or other
#3 Joint Grout (options)

Masonry sand (>3/8)	Fine Sand (1/8-5/8)
Mac Plus-Premium	VP Joint Grout-Premium
Mac Plus	VP Joint Grout
Mac Mortar	

#4 Bonding Mortar (to paver) (options)
VBM Bonder
VBM Poly Thinbrick
#5 Thick Bed Bonding Mortar (1" - 6") (options)
Thick Bed
Deck Mud - Poly
Deck Mud - Plus
Deck Mud
(Optional - with wire mesh)

#6 Bonding Mortar (to substrate) (options)
VBM Bonder
VBM Poly Thinbrick
#7 Anti-Fracture or Clevage Membrane (optional) - R-Lastic
Do not use when subject to water migration from the slab.
#6 Concrete Base - (optional - with J-4 R-Repel Aid water repellant and efflorescence reducer)
*See Product Data Sheet for Installation Instructions.

VBM-VP Installation System
Short Form Specification
For Veneer and Paper Installation

Installation products for manufactured stone, natural stone, precast concrete, and large format tile veneers and pavers.

Part 2 Products

A - Thin Bed Bonding Mortar

Basis of design shall be VBM_____ Polymer modified thin-set mortar which includes an integral water repellant/efflorescence control additive. Water absorption properties less than 6%*. Shall meet the shear bond requirements of ANSI 118.4. Color shall be _____. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
Bonder
Poly Thin Brick**

B - Thick/Medium Bed Bonding Mortars

Basis of design shall be VBM_____ Polymer modified Type S Masonry Mortar. Mortar shall include an integral water repellant/efflorescence control additive. Water absorption properties less than 6%*. Shall meet the property specifications of ASTM C270 -Type S Masonry Mortar and the shear bond requirements of ANSI 118.4 (thick bed). Color shall be _____. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
Poly 500
Poly 300
Poly LFT**
VBM**

C - Thick Bed Paver installation

Slurry bond coat basis of design shall be VBM_____. Shall meet the shear bond properties of ANSI 118.4. Water absorption properties less than 6%*. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
Bonder
Poly Thin Brick**
Thinset**

Thick bed - dry pack leveling coat basis of design shall be _____. Compressive strength shall be a minimum of 5000 PSI. Shall include an integral water repellant/efflorescence control additive and water absorption less than 6%*. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
OBP Poly Deck Mud
OBP Deck Mud Plus
OBP Deck Mud**

D - Joint Grout- Course Sand (large joints)

Basis of design shall be _____ a Modified Type S Masonry Mortar which includes an integral water repellant/efflorescence control additive. Mortar shall meet the property specifications of ASTM C270. Color shall be _____. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
MAC Plus Premium
MAC Plus
MAC**

E - Joint Grout- Fine Sand (small joints)

Basis of design shall be _____ A polymer modified grout which includes an integral water repellant/efflorescence control additive. Meets the compressive strength and water absorption requirements of ANSI 118.7* less than 5%. Color shall be_____. R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
VP Joint Grout Premium
VP Joint Grout

F - Related Products

Elastomeric waterproofing/Bonding adhesive/Anti-Fracture Membrane – Basis of design shall be_____ compatible with bonding mortar. (ANSI 136.1 – Organic Adhesives & ANSI 118.12 – Crack Isolation Membranes). R-Crete Inc. 949-888-8401 Erik.Anderson@rcrete.com.

Options
R-Lastic

* - Water absorption for best results
** - Contains water repellant/efflorescence control additive but may not meet water absorption properties.

Part 3 Execution

A - Substrates

1. Sound and conform to good design – engineering practices.
2. Maximum deflection of L/360 uniformity distributed.
3. Wall shall be level and true within 1/8 in. in 8 ft.
4. Must be clean and free from any curing compounds, bond breakers, dust, dirt, oil and anything which may hinder bond.
5. Smooth surfaces must be roughened.
6. Extend all control joints through veneer to the surface.
7. Installed per manufacturer instructions.

B - Installation

1. Veneers and pavers shall be installed per manufactures and/ or mortar manufactures recommendations.
2. All bonding mortars must be firmly keyed into all surfaces to be bonded.
3. 100% coverage required for all veneers and pavers.

Part 4 Installation Techniques

Options:

A - Wet to Wet

A coat of the bonding mortar shall be firmly pressed onto the substrate and the veneer/paver. While still wet and tacky, veneer/paver shall be firmly pressed together. 100% Coverage

B - Veneer/Paver Loading

A coat of the bonding mortar shall be firmly pressed onto the veneer/paver and firmly pressed onto the substrate. 100% coverage.

C - Tile Setters Method

The substrate shall receive a coat of the bonding mortar. Firmly pressed onto the substrate - 100% coverage. The tile, Thin Brick, or similar small veneer shall be pressed firmly into the wet mortar assuring full contact.

Part 5 Quality Assurance

1. Prior to installation, build a mock-up using the products and installation techniques to assure desired results.
2. During installation periodically _____(Frequency) check work performed. Remove bonded materials shortly after, within 3 minutes, to check that bonding mortar is equally bonded to the substrate and veneer – 100% Coverage.
3. For color consistency, perform test prior to installation using the techniques to be used on the job. The installation techniques must be consistent for color conformity and be used throughout the entire job.

Options
Daily
Per 1000 SqFt

R-CRETE INC.

VBM-VP™

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Installation Systems

R-Crete Inc.
P.O. Box 80286
Rancho Santa Margarita, CA 92688
949-888-8401 www.rcrete.com

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