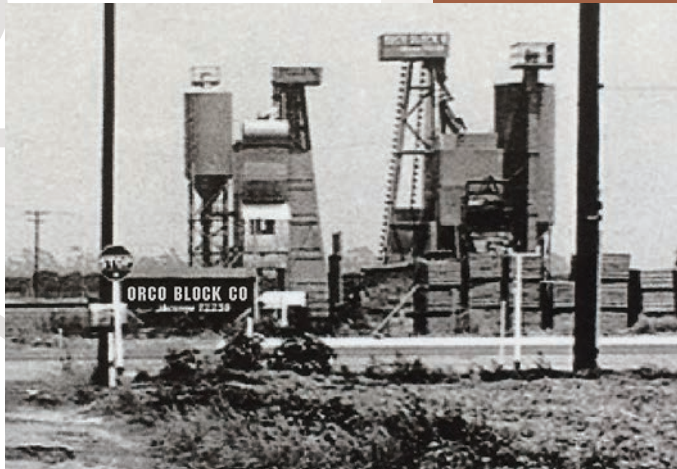


**OBP  
BLENDED  
PRODUCTS**

**ORCO BLOCK & HARDSCAPE**

# 1946



The beginning... young Pete Muth at the hand-operation.

## Family History

What started in 1946 as a small hand operation in Santa Ana, California with dad and his business partner, has evolved into what is now a 3rd generation family business – and we could not have done it without you, our customers. As we honor the past and build on to the future, we constantly challenge ourselves to find better ways to serve you and the industry.

We believe that quality products and unrivaled service are vital resources we must guarantee for our customers. At the same time, we must innovate and provide new products. At our new Riverside OBP blending facility, we manufacture purpose-built bonding solutions for block, pavers, natural stone, porcelain, brick, tile, and more – each designed to maximize performance, value, and beauty. Let us help you discover the right OBP product to help bring your vision to life.

We thank you for the opportunity to earn your business!

Cordially,

*Rick Muth*

CHAIRMAN



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# OUR LATEST

Today, we celebrate ORCO's latest addition - our new 50,000 sq ft blending facility in Riverside. It's state-of-the-art throughout, with 3 production lines, large indoor storage, and unprecedented convenience. Located adjacent to ORCO's Riverside block & paver plants, these 3 plants together provide our customers with a true one-stop-shop. ORCO Riverside has it all. Now, our customers have the option to go to one place for virtually everything.



# THE **ORCO** ADVANTAGE

## **SPECIALTY PRODUCTS MATCH PERFORMANCE AND VALUE TO EACH JOBSITE**

We offer purpose-built bonding solutions for block, paver, stone, porcelain, brick, and tile. Our Good/Better/Best options guarantee you'll find the perfect solution for your jobsite, no matter the task.

## **LEADING THROUGH EXPERIENCE AND INNOVATION**

OBP products have provided blended mortars and specialty products to jobsites since 2000. Innovation has been the key to our success. No one has more experience with veneer bonding mortars (VBM) and high performance pointing mortars & joint grouts.

## **A ONE-STOP SHOP OF CONVENIENCE**

With the addition of our new OBP plant, there are now three adjacent Riverside plants offering convenient pick-up for all ORCO products in a single stop. ORCO's goal is to make coming to Riverside the easiest part of your day.

## **CONSISTENT QUALITY**

ORCO's state-of-the-art new plant helps us guarantee consistent quality. The standards remain high, with the same dedication we've had since 1946.

## **VARIETY OF COLORS TO MATCH**

With a full spectrum of standard colors, ORCO makes finding complementary color matches easy.

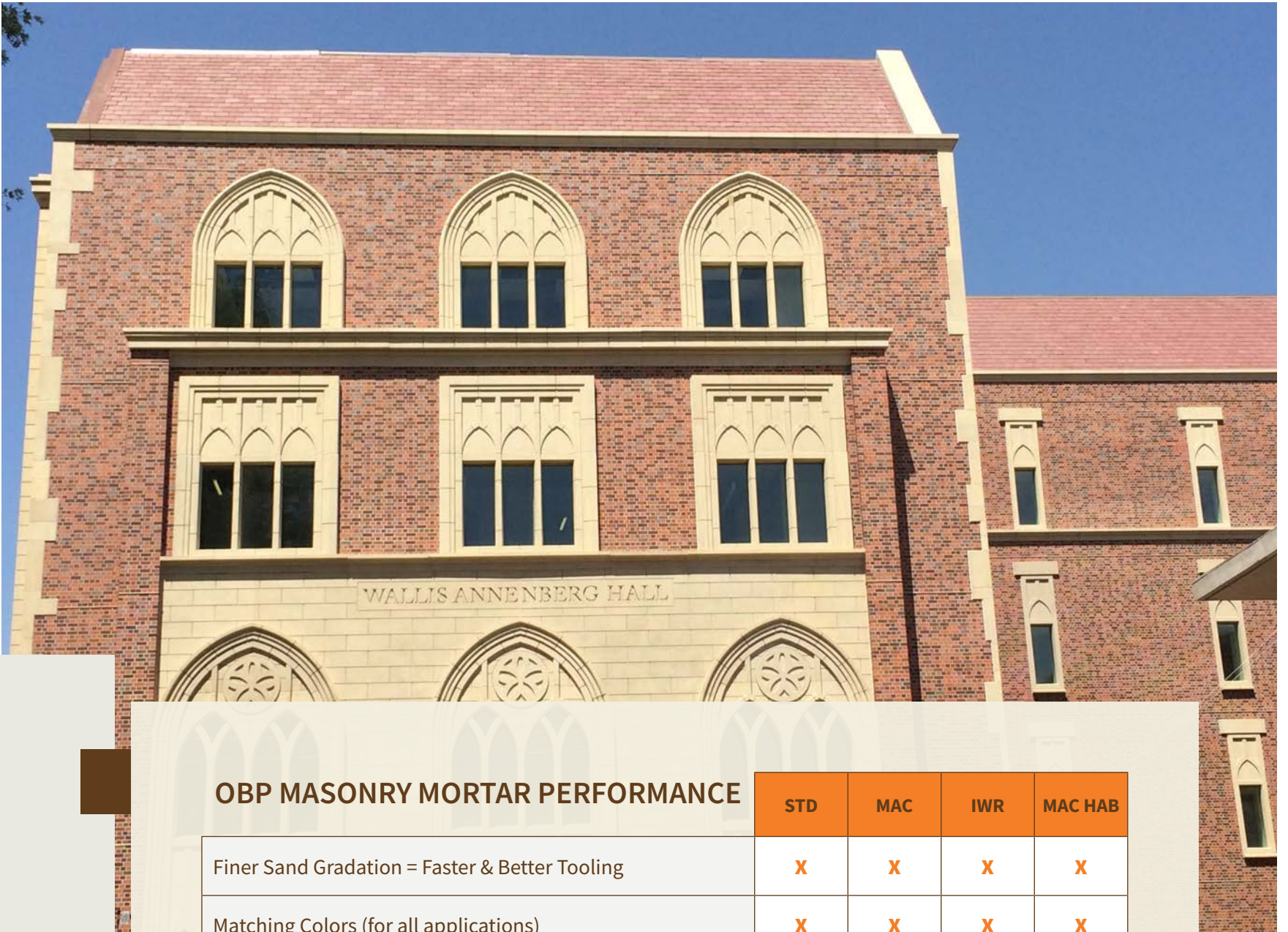
# MASONRY MORTARS

INDUSTRY STANDARD FOR  
BLOCK, BRICK, AND STONE

In 2000, ORCO Blended Products opened for business and began providing factory blended masonry mortars – Types S & M – which brought consistent mortar performance and color to local jobsites. By blending at our Highland plant, each sack had the proper amount of cement, sand, color, and additives – eliminating inconsistent jobsite "shovel mixtures."

OBP Type S & M masonry mortars continue to be the foundation of ORCO's blended products. There are 4 different offerings – STD (Standard), MAC, IWR (Integral Water Repellent), and MAC HAB (High Absorption Brick.) Each offering provides important advantages.





## OBP MASONRY MORTAR PERFORMANCE

	STD	MAC	IWR	MAC HAB
Finer Sand Gradation = Faster & Better Tooling	X	X	X	X
Matching Colors (for all applications)	X	X	X	X
Efflorescence Reducers		X	X	X
Greater Water Retention Improves Workability		X		X
Longer Board Life (particularly in hot summer months)		X		X
Integral Water Repellent (for use with ORCO IWR CMU)			X	

All OBP Masonry Mortars satisfy ASTM C270, City of Los Angeles approved (RR25454); DSA IR-A-5 compliant.  
Keep in mind that MAC mortars are the same price as STD.

# BONDING MORTARS

TAILORED TO EACH JOBSITE

Traditionally, contractors used Type S masonry mortars for most applications – from laying block to grouting joints to adhering all types of veneers both flat and vertical. However, masonry mortars do not provide optimal performance for every application – like those requiring greater bond strength, non-sag, low shrinkage, better water retention, higher degree of water repellency, etc. And contractors recognized these shortcomings long ago, creating their own concoctions of additives to STD Type S to better match mortar performance to their specific needs.

Like with masonry mortars, ORCO brought factory blending consistency to specialized bonding mortar applications. In 2002, ORCO introduced Veneer Bonding Mortar (VBM), which provided critical performance enhancements for all types of veneer installation. And today, there's no other manufacturer with more experience in bonding mortars – 22+ years and over 70 million sq ft of installed veneers.

ORCO's bonding mortars are split into 2 categories – Thin Set (for 1/8" – 1/2") and Medium Bed (for 3/8" – 1 1/2"). Satisfying ANSI 118.4 shear bond tile provisions, each category has 'Good/Better/Best' products – with the optimal choice driven by veneer type and specific jobsite conditions.



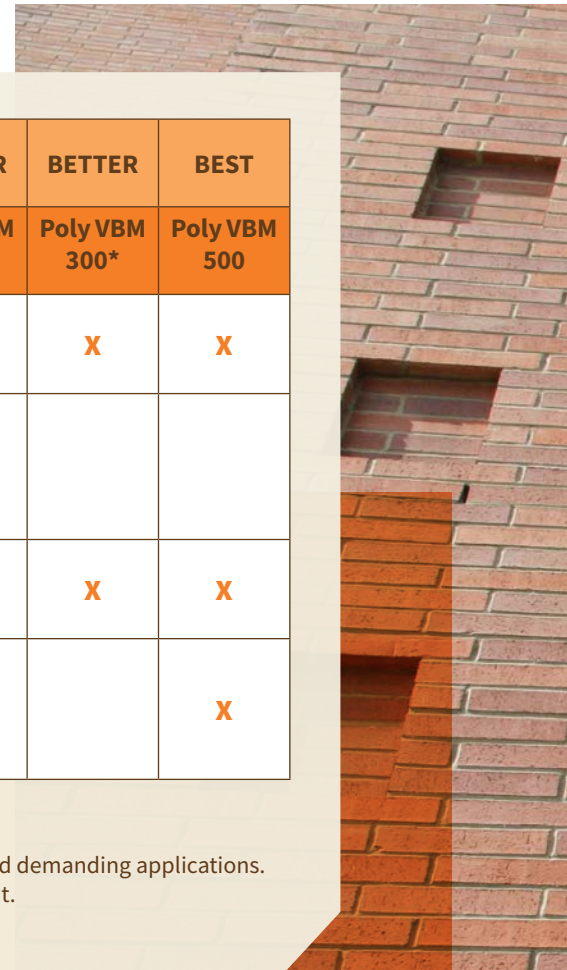


## OBP THIN SET PERFORMANCE

	GOOD	BETTER	BETTER	BEST
	VBM Thin Set	Poly VBM Thin Set*	Poly VBM Thin Brick	Poly VBM Bonder
Good overall performance at economical price. Satisfies ANSI 118.4 - Shear Bond (tile).	X	X	X	X
Better tack, water repellency, and efflorescence reduction.		X	X	X
Better match for thin brick tile & thin masonry veneers. Greater flexural bond.			X	X
Strongest. Best tack and non-sag. For demanding applications, like large masonry veneers & vehicular pavers/slabs on concrete. Highest polymer content. Satisfies ANSI A118.15.				X

\* Most popular choice

For Poly VBM Bonder, use R-Crete R-Flex Ad as a 25-50% water replacement to create a bonding mortar with even greater flexural strength, impact resistance, and water repellency. (Not for joint grouts because of color impact)

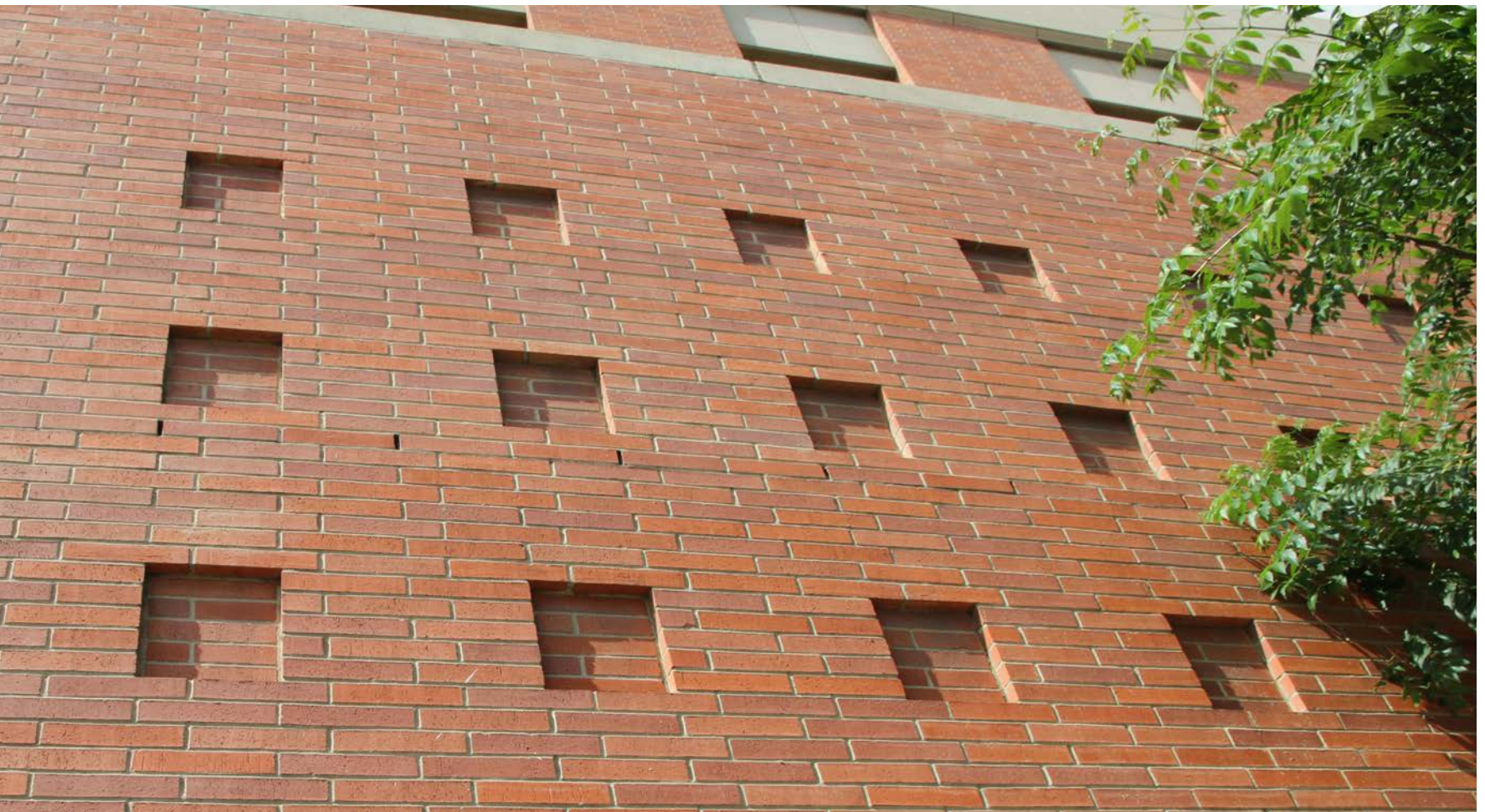


## OBP MEDIUM BED PERFORMANCE

	GOOD	BETTER	BETTER	BEST
	VBM	Poly VBM LFT	Poly VBM 300*	Poly VBM 500
Good versatile performance at economical price. ASTM C270. 300+ psi shear bond. Satisfies ANSI 118.4 - Shear Bond (tile).	X	X	X	X
For Large Format Tile (LFT) and masonry veneers. Extra tack. Excellent water retention for working in hot weather. Added polymers.		X		
Better flexural bonding and impact resistance. Higher degree of water repellency. More polymer content.			X	X
Even stronger. Best tack and non-sag. Exceptional water repellency. For demanding applications, like installing large/heavy masonry veneers, installing at heights at 12' and above, and vehicular paver applications. Highest polymer content.				X

\* Most popular choice

Non-porous surfaces, like porcelain and glass, require additional adhesion - particularly in high traffic and demanding applications. Use either R-crete's R-Flex Ad or R-Acrylic Ad as a 25% to 50% water replacement.



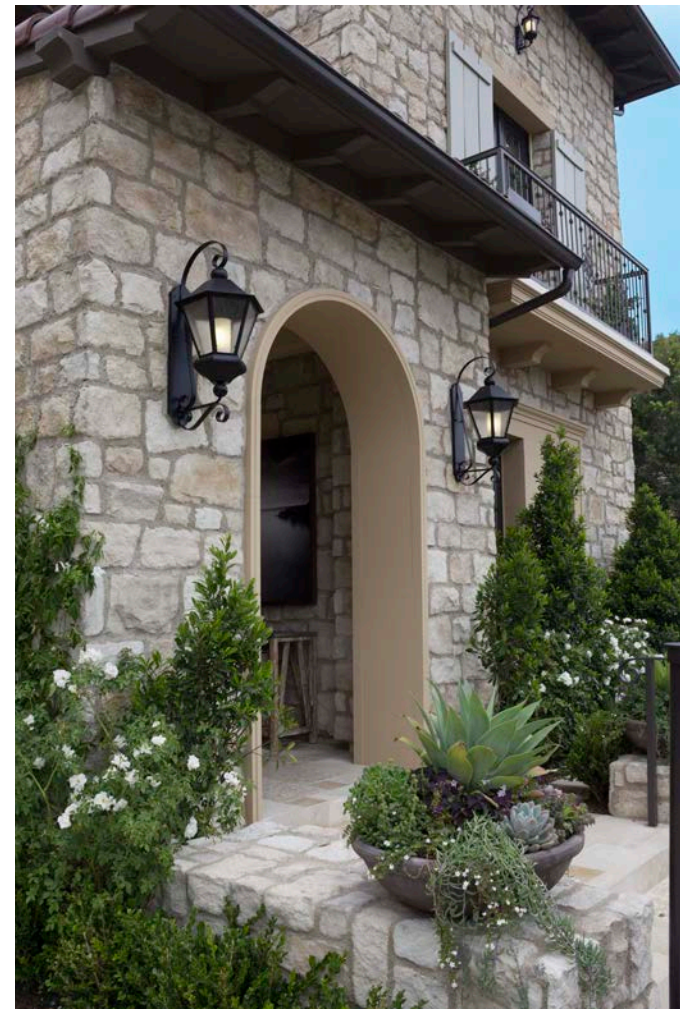
# POINTING MORTARS & JOINT GROUTS

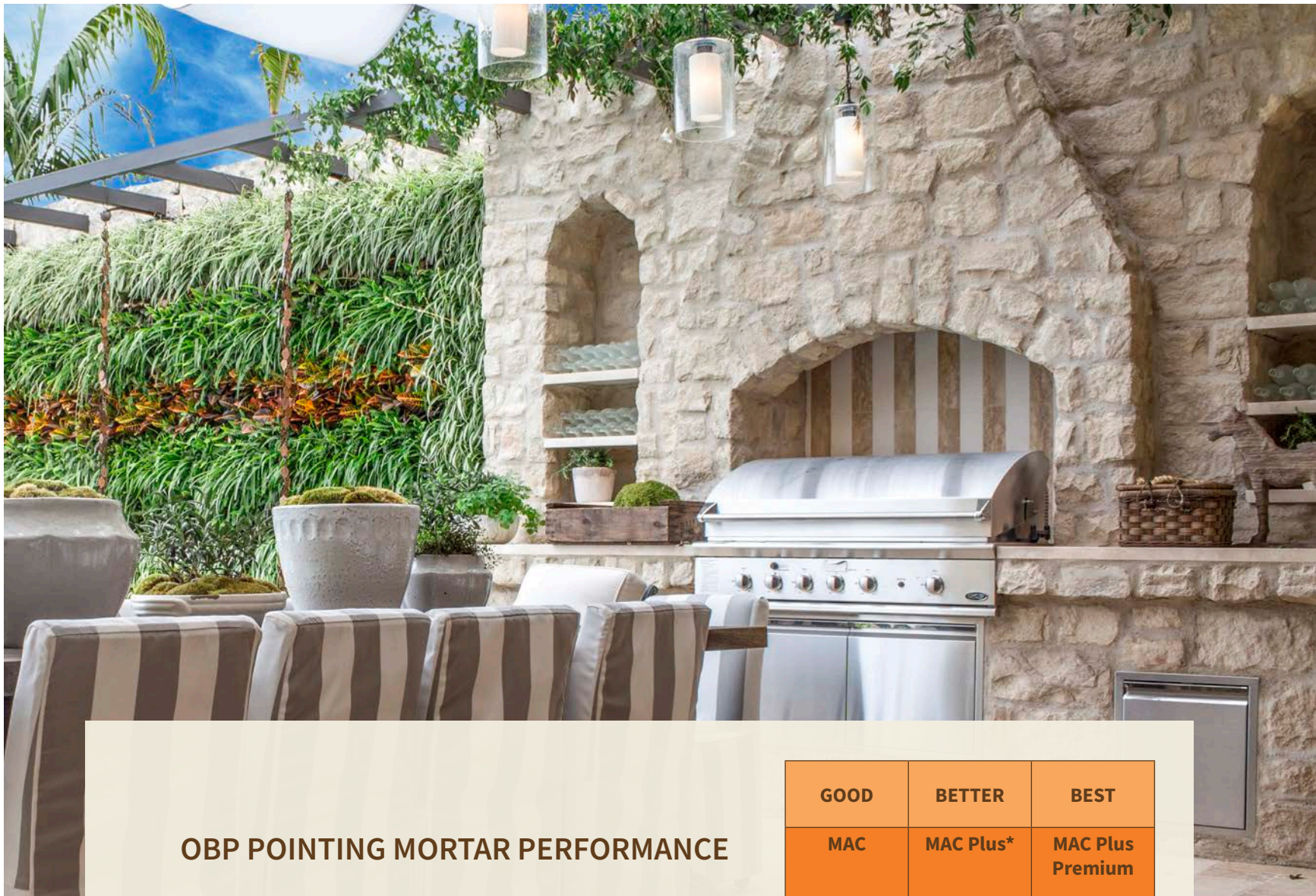
MATCHING COLORS, MAXIMIZING  
STRENGTH, CONTROLLING SAG &  
SHRINKAGE

The next step in the evolution of OBP specialty products was ORCO's introduction of high-performance pointing mortars and joint grouts. The difference between the two is joint size. OBP pointing mortars fill wide joints (from 1/4" to 3") – like brick & stone – and satisfy ASTM C270. OBP VP Joint Grouts satisfy ANSI 118.6/118.7 and are used to fill narrow gaps (from 1/8" to 1/2"). Wider joints require masonry sand, while narrow joints require silica sand.

Critical to ORCO's success is continuous color innovation. Year after year, OBP mortars and grouts provide the best match to the products being installed.

While MAC masonry mortars are still commonly used as pointing mortars because of adequate performance and lower price, the advantages of specialized products are significant.



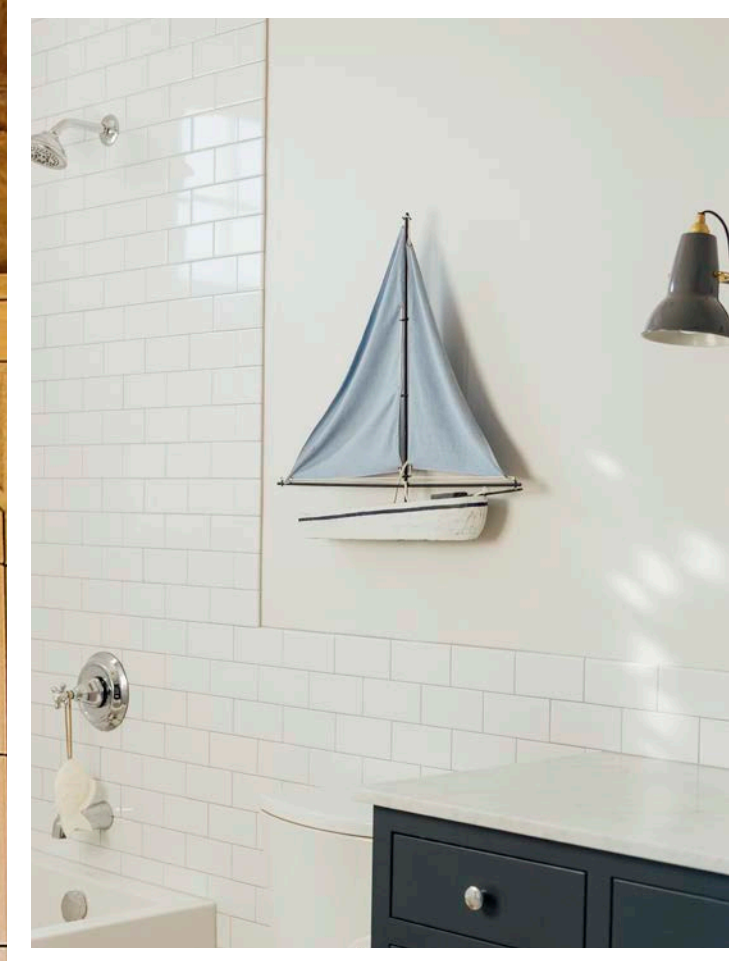
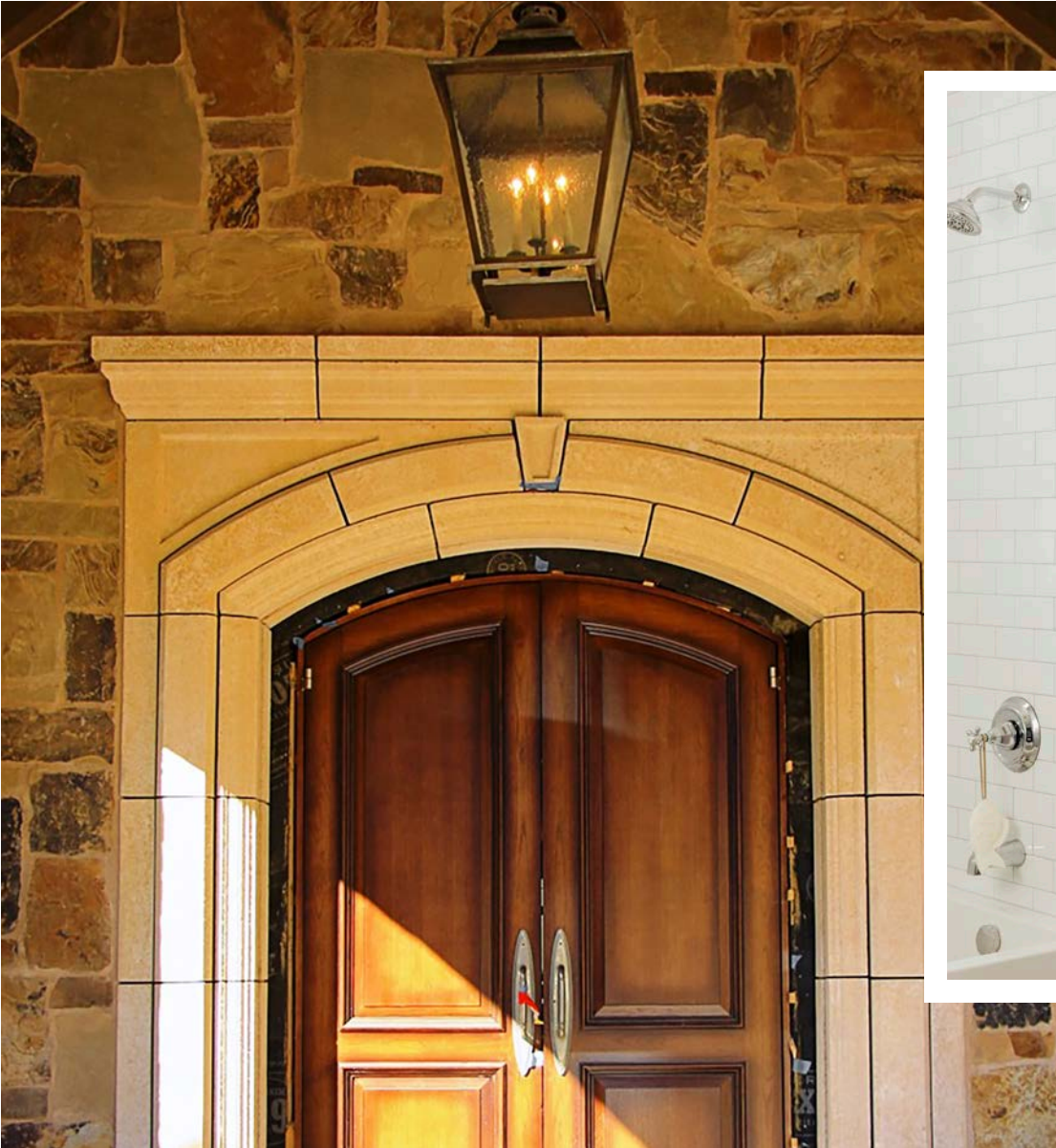


## OBP POINTING MORTAR PERFORMANCE

	GOOD	BETTER	BEST
	MAC	MAC Plus*	MAC Plus Premium
Traditional standard. Water repellency, efflorescence reducer, low shrinkage, and utility product at an economical price.	X		
Stickier with non-sag. Greater strength and low shrinkage. Higher water repellency and stain resistance. Better efflorescence reducer. Together, these attributes make MAC Plus very different from MAC masonry mortar.		X	X
For most demanding applications. Premium polymers amplify the advantages of MAC Plus and add greater flexural bond strength.			X

\* Most popular choice

Performance of pointing mortars can be greatly enhanced by using R-Crete R-Acrylic Ad as a partial water replacement. Acrylic additives increase flexural strength and stain resistance beyond even our best 'Premium' products. Recommended for paver applications.





## OBP VP JOINT GROUT PERFORMANCE

	BETTER	BEST
	VP Joint Grout*	VP Joint Premium
Higher strength. Low shrinkage and greater water repellency. Improved stain resistance. Stable color. Greater efflorescence reducer.	X	X
Satisfies ANSI 118.6 compressive strength & water absorption requirements.	X	
Takes performance up another notch. The best choice for tough applications. Multiplies all the great qualities of VP Joint Grout, highlighting greater flexural bond strength. Premium polymers.		X
Satisfies ANSI 118.7 compressive strength and water absorption requirements.		X

\* Most popular choice

Performance of joint grouts can be greatly enhanced by using R-Crete R-Acrylic Ad as a partial water replacement. Acrylic additives increase flexural strength and stain resistance beyond even our best 'Premium' products.

# BASE MORTARS

THICK LEVELING BED  
ALTERNATIVES WITH PREMIUM  
PERFORMANCE OPTIONS

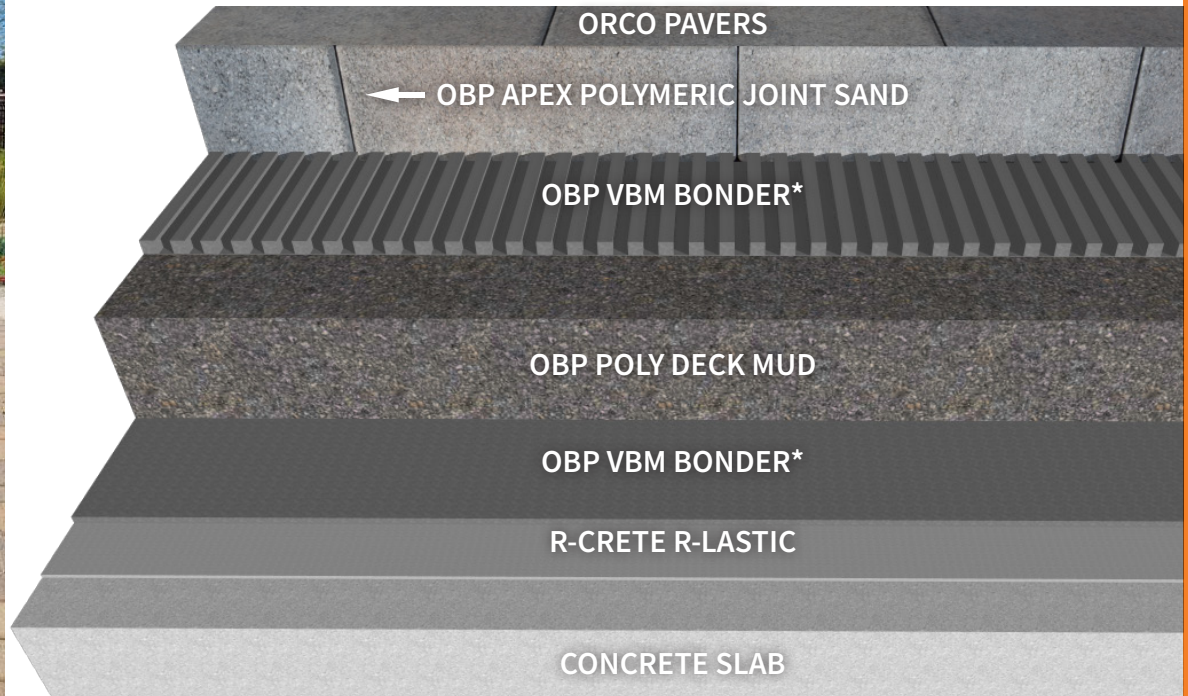
As the ORCO specialty line of mortars continued to expand and gain acceptance, situations arose where thick leveling bed products were needed. ORCO's line of deck mud covers a broad spectrum. OBP Deck Mud / Dry Pack is available in three different cement ratios – 4:1, 3:1, and 2:1 – to satisfy most common project requirements. Plus, two specialty deck muds that provide superior performance and expand applications.

Keep in mind that deck mud height on soil should never exceed 4" (6" with embedded mesh). While deck mud provides no bonding or adhesion properties, applying OBP Poly VBM Bonder and R-Crete R-Lastic creates a cohesive system – particularly when installing pavers.





## ORCO PAVER BONDING SYSTEM



\*For ORCO VBM Bonder, use R-Crete R-Flex Ad as a 25-50% water replacement to create a bonding mortar with even greater flexural strength.

### OBP BASE MORTAR PERFORMANCE

	GOOD	BETTER	BEST
High quality deck mud. Three cement ratio options.	X		
Greater water repellency. Better efflorescence reducer. 3:1 mix.		X	X
For demanding applications. Greater flexural strength and impact resistance. Best water repellency and efflorescence reducer. Provides high strength leveling bed for VBM bonders and setting bed for vehicles in vehicular applications.			X

\* Never use in dry install applications.

# WATER & DAMP PROOFING

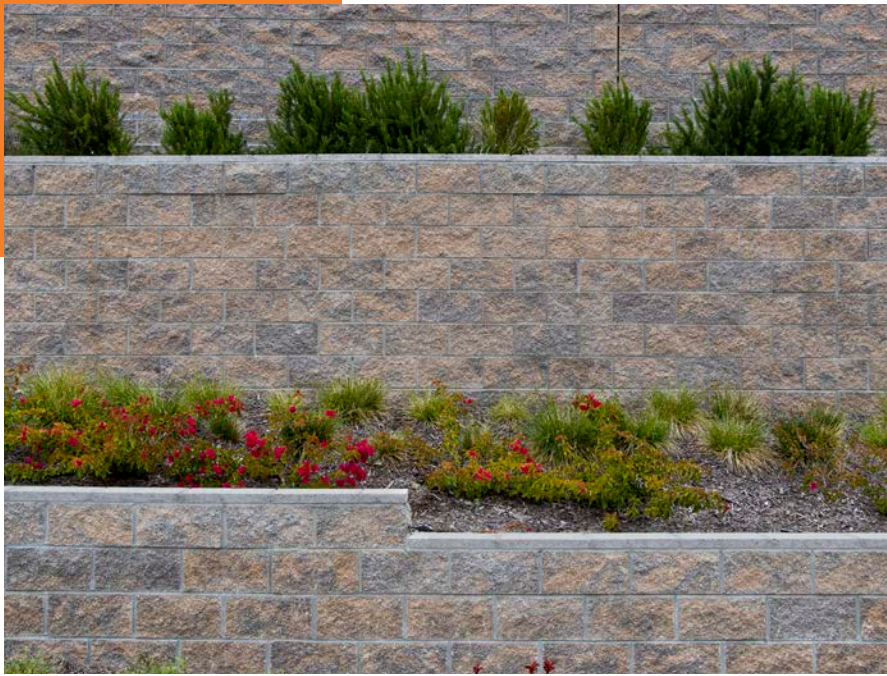
PROTECT WITH CONFIDENCE

Water exposure is always a concern. To help control and resist water passage through masonry, ORCO introduced:

**OBP Poly Waterstop** – Applied to masonry surfaces, this cementitious based blended product inhibits moisture transfer from site soils. Also, it chemically bonds to concrete substrates. Option to add R-Crete R-Flex Ad as a 25-50% water replacement to create a flexible damp proof coating with even greater flexural bond, impact resistance, and water repellency. (Not for joint grouts because of impact on color)

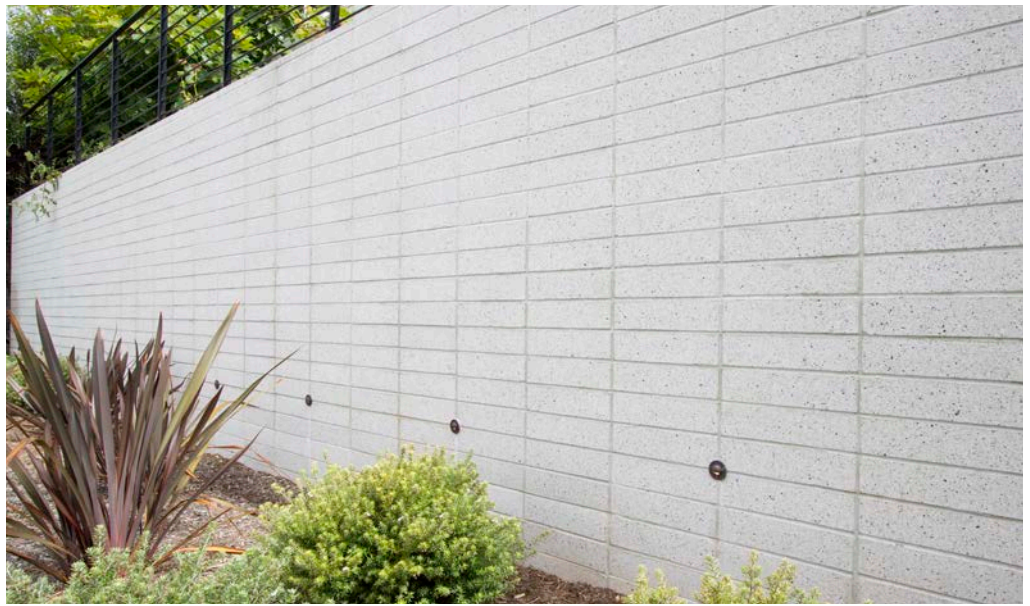
**R-Crete R-Lastic** – Creates an organic elastomeric water proof membrane. In addition, R-Lastic can effectively serve as a flexible bonding adhesive, crack isolation membrane, and an air and water barrier.





# WALL GROUTS

EXCELLENT STRENGTH &  
FLOW FOR SMALL PROJECTS





Contractors recognize the importance of strong, good flowing wall grouts.

**OBP Masonry 70/30 Grout 3000 PSI** – Blend of 70% sand, 30% 3/8” aggregate, and Portland cement.

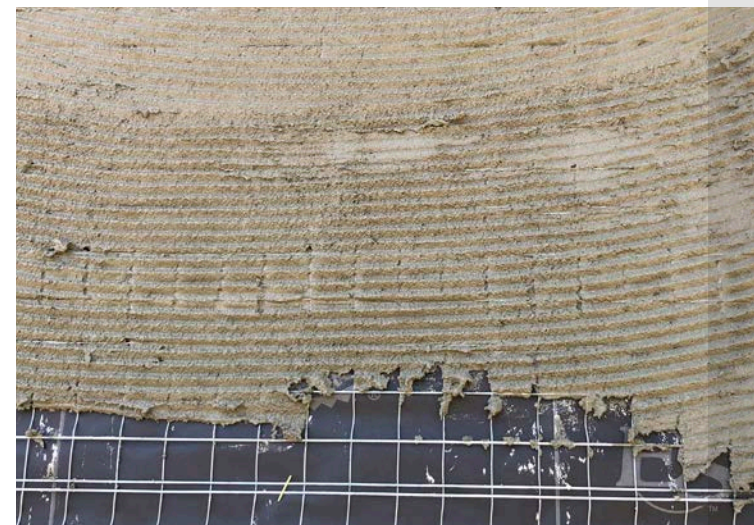
**OBP Masonry Fine Grout 3000 PSI** – Washed sand and Portland cement. Includes R-Crete GA-213 Grout Aid, which is also sold separately. The GA-213 Grout Aid improves pumping properties and bond strength.

# PLASTER / STUCCO

CONSISTENT PERFORMER,  
FEWER CRACKS

OBP Scratch & Brown mortars are factory blended plaster mortars, used as first and second coats on walls. Featuring low shrinkage, excellent workability, high strength, efflorescence reduction, and product consistency.





## OBP PLASTER / STUCCO PERFORMANCE

	GOOD	BETTER	BETTER	BEST
	Scratch & Brown	MAC w/ Fiber	MAC Plus w/ Fiber	MAC Premium w/ Fiber
Cement plaster base for VBM bonding systems and color texture coats. Excellent flow through the gun.	X	X	X	X
Stronger than plastic cement mixtures. Less cracking. Good efflorescence reducer.		X	X	X
Adds excellent water repellency along with low shrinkage and more efflorescence reducers.			X	X
Polymer modified for even better performance. Strongest. Fewest cracks.				X

In addition, ORCO offers OBP Poly Foam 2000 – a poly modified cement-based adhesive for EPS foam shapes.

# CONCRETE MIXES CEMENT LIME & SAND



To go along with OBP specialty products, ORCO offers a complete line of industry standards.

**OBP Concrete Mixes 4000 PSI & 5000 PSI – 50% sand, 50% 3/8” aggregate, and Portland cement.**

## PLUS

- **Cemex Common Type II / V Cement**
- **Cemex Plastic Cement**
- **Lehigh White Cement**
- **CMAX Ultra White**
- **Chemstar Type-S Lime**
- **OBP APEX Polymeric Joint Sand**
- **OBP Paver Joint Sand**
- **OBP Permeable Paver Chips**
- **Silica Sands - #16, #20, #30, #60, #90**





# CONCLUDING THOUGHTS



During the past 24 years, ORCO played a significant role in the development and acceptance of blended specialty products – particularly in veneer bonding mortars (VBM), pointing mortars and joint grouts. Our Good/Better/Best products allow our customers to match product performance and cost to each jobsite.

In addition, there is also an impressive story to be shared about using these products together in a system, like when installing pavers and slabs on concrete – using R-Crete's R-Lastic and R-Flex Ad plus OBP's Poly Deck Mud, VBM Bonder, and Apex Polymeric Joint Sand. Working together, these compatible products provide "better than best" performance.

Our new blended products manufacturing facility in Riverside gives ORCO the capacity to serve our customers better and continue to expand into more specialty products. And the adjacent plant locations provide a very welcome one-stop-shop for all. Moving forward, ORCO will continue to listen to our customers to make sure we provide solutions and always "keep customers first."





**With our new plant  
we continue to serve,  
and make working with ORCO  
the easiest part of your day!**



**OBP BLENDED PRODUCTS  
ORCO HARDSCAPES**

4545 RUTILE STREET  
RIVERSIDE • CALIFORNIA  
92509

OFFICE: 951.685.8498 • EMAIL: INFO@ORCO.COM

**ORANGE / LOS ANGELES**

11100 BEACH BOULEVARD  
STANTON • CA 90680  
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**INLAND EMPIRE**

4510 RUTILE STREET  
RIVERSIDE • CA 92509  
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**COACHELLA / IMPERIAL**

35-240 DILLON ROAD  
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**SAN DIEGO**

3501 OCEANSIDE BLVD  
OCEANSIDE • CA 92056  
OFFICE: 760.757.1780

**ORCO.COM**

**FOR MORE INSPIRATION, CONNECT WITH US!**



**⚠ WARNING:** This product when cut or ground can expose you to Silica, crystalline (airborne particles of respirable size) which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).