ORCO BLOCK & HARDSCAPE
Family Owned Since 1946

Masonry Mortar

OBP Type-S IWR



Technical Data

Satisfies the following:

- **ASTM C270, Properties**
  Standard Specification for Mortar for Unit Masonry
- **ASTM C1714, Properties**
  Standard Specification for Preblended Dry Mortar Mix for Unit Masonry
- **CBC Requirements**

Description

A dry, factory blended mortar comprised of Portland cement, hydrated lime, washed/dried sand, and proprietary integral water repellent.

Uses

For installation of block, brick, stone, or wherever a high quality Type-S mortar (ASTM C270) is required. For load and non-load bearing construction.

Color Consistency

Specified color is added and blended together at the factory - rather than jobsite. Stock colors are Natural Gray (that has no color) and Tan. For special order colors, see ORCO's Masonry Mortar Colors brochure or visit ORCO.COM.

Packaging

- 80 lb sacks (42/pallet).
- 3,000 lb bulk bags, with silos available.
- Store off ground in covered, cool, clean & dry location to maximize shelf life.

Approximate Coverage

- 16-19 block/80 lb sack.
- 39-41 modular brick/80 lb sack.
- 540-660 block/3000 lb bulk bag.

Safety

Always review Safety Data Sheet (SDS) prior to using this product. Available at ORCO.COM, or contact support.

Support

For questions, technical support, order inquiries, and product information, call (951) 685-8498 or email INFO@ORCO.COM.

IWR Advantages

- Completes ORCO's Integral Water Repellent System (for use with ORCO IWR CMU).
- Eliminates IWR liquid admixtures onsite.
- Better water repellency than STD or MAC mortars.
- Adds efflorescence reducers.
- Less shrinkage.

Plus STD Advantages

- Best quality control. Factory blended. Same batch every time.
- More consistent sand = faster & better tooling.
- Excellent bond strength.
- Wide array of colors.

Mixing & Installation

- Recommended amount of water added is slightly less than Type-S STD due to greater water retention.
- Pour 75% of total potable water into mechanical mixer.
- Add masonry mortar while mixer is running.
- Add remaining 25% of potable water, plus additional water as necessary to achieve the proper consistency. Mix should be drier than Type-S STD.
- Mix each batch for approximately 5 minutes.
- Stop mixer and let mortar stand for 2 minutes, then proceed to re-mix. Stay consistent.
- Do not over-mix. High air content lowers strength.
- Under normal conditions, maximum "board life" (from initial mixing) is 2.5 hours per ASTM.
- Follow all applicable TMS (The Masonry Society) and local building code requirements.
- For brick, follow installation guidelines per Brick Industry Association at gobrick.com.

Limitations

- Amount of water used, tooling, weather, etc. can impact color and strength.
- Jobsite mockups are strongly recommended to verify color and finish.
- Retempering should be limited to replacing water lost to evaporation.
- Do not add any admixtures without prior consent.
- For hot or windy conditions, see CMHA (Concrete Masonry & Hardscape Association) and TMS for guidance.
- Do not apply when temperatures are below 40° F prior to cure.
- Not recommended for commercial veneer bonding.
- Do not use as grout in vehicular applications.
- ASTM C270 pre-construction testing for net compressive strength, air content, absorption, etc. are performed in a controlled laboratory environment - not the jobsite. For more information, see ASTM C1586 *Standard Guide for Quality Assurance of Mortars.*

Warranty & Claims

ORCO manufactured articles are warranted for 1 year, conforming to standards and specifications ORCO certifies and publishes at the time of shipment. **ORCO MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED (INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES), OTHER THAN THE FOREGOING EXPRESS WARRANTY.** Products manufactured by others and sold by ORCO are solely warranted by the originating manufacturer. Use or installation of ORCO sourced product by the CUSTOMER shall be an admission by the CUSTOMER and conclusive proof that such articles are in every respect as warranted and shall release ORCO from any and all claims for damage or loss sustained by CUSTOMER. For product not yet installed, CUSTOMER must submit a written breach of WARRANTY notice within 7 calendar days of delivery. Upon ORCO's request, CUSTOMER is responsible for all costs incurred in returning product to the originating ORCO facility for evaluation. If ORCO's investigation supports the claim, the parties agree that CUSTOMER'S sole and exclusive remedies shall be replacement of the defective article or refund of the price of the defective article at ORCO's election. IN NO EVENT SHALL ORCO BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Variations in color or shades of color, texture and site of aggregate are inherent in these products. Exact matches are never guaranteed. No claims will be allowed for these variations. Since natural gray products reflect the natural color of the raw materials used (no color is added during manufacturing), ORCO will reject any claim regarding gray color variation. Efflorescence (white powdery deposit) is a naturally occurring phenomenon and is not considered a defect. Samples of ORCO products are submitted as representative of type, color, shade, and texture. The products subsequently furnished may vary from such samples. ORCO will not be liable for and will not recognize any claims made after the start of installation on products said to be incorrectly sized or shaded, inconsistent texture, not matching prior shipments, or otherwise held to be unsatisfactory. Any charges incidental to inspection or tests made by or on behalf of the CUSTOMER to determine compliance with specifications shall be paid by the CUSTOMER. Natural elements - like sun, wind, and moisture - plus site specific conditions / applications may cause products to fade, which is never warrantable. All product weights and coverage / usage charts and listings are estimated. All product formulations and published product counts per pallet are subject to change without notice. ORCO does not obligate itself to furnish signed receipts for material delivered.

Caution

This product should only be used outdoors. Protective face and eye protection, impervious gloves, long pants and long sleeve shirts are recommended. Use NIOSH approved mask for silica dust. Prolonged exposure to dust may cause delayed lung disease. Freshly mixed materials may cause skin irritation. Avoid direct contact where possible and wash exposed skin areas promptly. If any materials get into the eyes, rinse immediately and repeatedly with clean potable water and get prompt medical attention. See SDS sheet.

⚠ Warning

This product 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.**

Rev. 5/26