

**HessLite™** LIGHTWEIGHT  
BLENDED MATERIALS

# MAC™ Mortar

TYPE  
**S**

TYPE  
**N**

## HESSLITE™ MAC™ MORTARS

1 | **PRODUCTS:** HessLite™ MAC™ Type-S and Type-N Masonry Mortars

2 | **MANUFACTURER:** Hess Performance Products, 100 Hess Drive, Malad, Idaho 83252

**Product Availability:** 208.860.7325 • lee@hesslite.com

**Technical Support:** 208.860.7325 • lee@hesslite.com

**Website:** hesslite.com

3 | **PRODUCT DESCRIPTIONS:** HessLite MAC Type-S Mortar is a lightweight, high-strength, premium masonry mortar for use with lightweight CMU products. HessLite MAC Type-S IWR is formulated with additional water repellent and efflorescence reducing additives. HessLite MAC Type-N is for non-structural construction or repair of block, brick, stone. Mortars contain a blend of Portland cement, graded lightweight aggregate, hydrated lime, and proprietary additives.

**Specifications:** Meets the property specifications of ASTM C270.

**Uses:** HessLite MAC Masonry Mortars are designed for installing block, brick, stone, pavers\* (with pedestrian or light vehicle traffic), and similar masonry units.

**Advantages:** HessLite MAC Mortars have the following advantages:

- Lightweight for easy handling and reduced structural loading.
- High bond and compressive strengths.
- Lower shrinkage, high water retention.
- Pre-blended color and uniformity.
- Excellent workability and board life.
- Convenient handling and transporting.
- Includes efflorescence-reducing additives.

**Colors:** HessLite MAC Mortars may be ordered in standard colors and special order colors. The efflorescence control and water repellent properties help the long term appearance of colored mortar. For color consistency use the same water and tooling techniques. Color can vary dramatically. Test installation techniques prior to application.

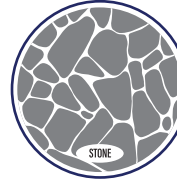
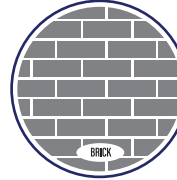
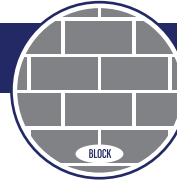
**Packaging:** HessLite MAC Mortars are available in 55 lb. moisture-resistant bags.

**Coverage:** Coverage can vary based on job conditions, application thickness, and waste. Yield is approximately 0.68 cu.ft. per 55 lb bag.

**Shelf Life:** When stored in a cool dry area, with low humidity, shelf life is approximately six months to one year.

**Efflorescence:** HessLite MAC Mortars have proven experience reducing efflorescence, however, due to variables beyond our control, we cannot guarantee efflorescence will not occur.

**Suitable Substrates:** All substrates must be clean and free from any dirt, oil, paint, bond breakers or any substances which may hinder bond. The substrate must be structurally sound and conform to good engineering practices—meeting building code requirements. Movement in the substrate can cause cracking in the finished mortar and bond failure. All expansion or movement joints shall be brought through the mortar to the surface.



**Hess** | Performance  
Products  
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Product Data Sheets are subject to change without notification. Test results shown are typical but field performance will vary depending on installation methods and job conditions. HessLite, BondMate, and PolyThin are trademarks of Hess Performance Products. MAC and VBM are trademarks of R-Crete Inc.

### HESSLITE INSTALLATION SYSTEM PRODUCT CROSS REFERENCES

- \*For masonry veneers and pavers use VBM BondMate (Medium Bed applications) and VBM PolyThin (Thinbed applications).
- For grouting and pointing applications, use HessLite MAC Pointing Mortar (grout joints greater than 3/8") or HessLite MAC Fine Pointing Mortar (grout joints less than 1/2").

# HessLite<sup>™</sup> LIGHTWEIGHT BLENDED MATERIALS MAC<sup>™</sup> Mortar

TYPE S TYPE N

**Limitations:** Do not apply when temperatures are below 40° F prior to cure. Do not add any admixtures without prior consent. Follow ASTM and ANSI guidelines for installation in high heat, cold or wind. Color may change due to differing water content, weather, absorption, and tooling techniques. Do Not Over Mix (3-5 min), as high air content will lower strength. Substrate must be sound—any cracks or excessive movement may telegraph through mortar or cause bond failure. Must follow proper design and application procedures.

**4 | TECHNICAL DATA:** HessLite MAC Mortars meet the property specifications of ASTM C270 Type S (>1800 psi). The mortar consists of Portland Cement (ASTM C150), Type S Lime (ASTM C207), R-Mortar Aid, J-4 R-Repel Aid integral water repellent, and graded lite-weight aggregate. Compressive strength specimens must be air cured for 7 days prior to testing due to their high water retention and water repellency (per ANSI 118.1). Manufactured in accordance with ASTM C1714 quality control standards.

## 5 | INSTALLATION

**Mixing Instructions:** Proper mixing is critical for performance and workability. Start with six (6) quarts of clean water, add entire bag and mix at LOW SPEED for **3-5 minutes**. DO NOT OVER MIX! Mixing should be done carefully to minimize air entrainment, as high air content will reduce performance. **Allow to slake for 7 to 10 minutes.** (Lightweight aggregate will continue to absorb water.) Gently re-mix and adjust consistency with additional water if necessary.

**Application:** Follow appropriate building codes for installation and curing requirements. It is the users' responsibility to insure the mortar is suitable for the intended application, that the substrate is properly prepared and application is performed correctly. Use a trowel or grout bag to place mortar. Allow placed mortar to become thumb print hard before finishing joint with a trowel, rake, brush, or jointing tool to desired finish. All applications shall be in accordance with IBC, CBC, ASTM, ANSI, and local building codes.

**Admixture:** Replacing all or part of the mix water with **R-AcrylicAd** will increase chemical/stain resistance and increase flexural bond, impact resistance, and water repellent properties.

**System:** HessLite MAC Masonry Mortars are part of the **HessLite Installation System**. Visit [www.HessLite.com](http://www.HessLite.com) for complete lightweight product line.

**6 | AVAILABILITY AND COST:** HessLite MAC Masonry Mortars are available from select distributors. For distributor information, contact Lee at 208.860.7325 or [lee@hesslite.com](mailto:lee@hesslite.com)

**7 | WARRANTY:** The technical information and usage statements are based on our best knowledge. The contents of this specification sheet are presented for informational purposes only and do not constitute responsibility for their use. The manufacturer will replace only that material which is proven defective due to quality of the components or the manufacturing process.



**CAUTION:** Prolonged exposure to dust may cause delayed lung disease. Eliminate exposure to dust. Use NIOSH approved mask for silica dust. Freshly mixed materials may cause skin irritation. Avoid direct contact where possible and wash exposed skin areas promptly. If any cementitious materials get into the eyes, rinse immediately and repeatedly with water and get prompt medical attention. See SDS sheet.

**NOTICE:** Testing for crystalline silica (airborne particles of respirable size) has shown no measurable rates (<0.1%) of Crystalline Silica (SiO<sub>2</sub>) to be present in HessLite MAC Mortars.

**WARNING:** Products containing crystalline silica (airborne particles of respirable size) are known to the State of California to cause cancer. For more information go to [www.p65Warnings.ca.gov](http://www.p65Warnings.ca.gov).