

# GIBCO'S MRF

*.... Building progress through technology*

Gibco's MRF the "pure" catalytic chemical concentrate that does the whole job ... alone! No need for lime or other hard to control additives! MRF produces superior mortars at substantial savings in time and expense. MRF mortars are high strength, virtually waterproof and colorfast without disbonding. MRF established "state-of-the-art" technology for the masonry industry. MRF chemical concentrate solves the problems of excess tempering, efflorescence, freeze-thaw breakup, water penetration and lime burns. MRF mortars meet or exceed design specifications.

## **SAVE THREE WAYS WITH MRF**

MRF is a substitute for water active ingredients traditionally used ... provides a non shrinking mortar after initial set.

## **FREE-THAW DAMAGE ELIMINATED ... COMPARED WITH OTHER MORTAR MIXES**

More resistant to freeze-thaw cycles than lime mortar ... consistent 12 to 14 percent air entrainment without hard to control A/E chemicals.

## **INCREASED STRENGTH**

MRF is the catalyst that maximizes the effectiveness of cement and results in twice the compressive strength of lime mortars. MRF's high water retention assures strength and helps waterproofing qualities.

## **COLOR CONSISTENCY WITH ONE-THIRD LESS COST**

Use one-third less color pigment to achieve the same color brilliance. MRF'S unique, dispersing agent homogenizes the sand, cement and pigment to form a mortar alloy never before possible. Get color consistency ... batch to batch ... day to day... even crew to crew, all without weathering or fading!

## **SUPER WORKABILITY WITHOUT EXCESS TEMPERING**

Easy tooling of joints ... even spread and buttering ... stays with brick, block and stone! MRF retains over 80 percent of mix water and remains workable longer without retempering or loss of strength.

## **NO MORE LIME BURNS OR SKIN IRRITATION**

MRF'S lime free mortar creates a safer jobsite and better working environment. Ends time loss and medical claims caused by lime mortars.

## **SOLVES SHRINKAGE PROBLEMS**

### **Time...**

MRF produces a fully homogeneous mortar, easily mixed, a pleasure to apply. Man-hour length requirements are reduced.

### **Materials ...**

A small amount of MRF goes a long way in replacing a ton of lime. Easy to store and safe to handle in convenient plastic containers ... unlike heavy, hazardous bags of lime. Use 25% more sand without a change in mix integrity.

### **Money...**

You'd expect to pay more for a product with all the features of MRF ... but MRF costs less than any lime mortar you're using ... as much as 50% less! Plus, MRF reduces labor, waste and cleanup as much as 30 - 40 per cent

## **INDEPENDENT LABORATORY TESTS SHOW GIBCO'S MRF STANDS ALONE**

TEST	TYPE	MRF	ASTM STANDARD
ASTM C185	Air Content	12%	8% to 20%
ASTM C109	Compressive Strength	3000 to 8000 psi	2900
ASTM C157	Shrinkage Test	.01	.10
ASTM C109	Flow	111	115 + or -
ASTM C109	Water Retention	80 to 85	70 min
ASTM C151	Autoclave Soundness	.011	1.0 max
ASTM C1072	Flexural Bond Type S	139.97	104 min
ASTM C 1072	Flexural Bond Type M	148.16	114 min

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