

UNDERSTANDING PROPER MORTAR SELECTION

1. WHAT QUANTITIES OF MATERIALS DO I NEED FOR MY PROJECT?

MORTAR MATERIALS	
Concrete Block:	3 bags of WORKRITE® per 100 blocks 33 blocks per bag of WORKRITE® 800 lbs. of sand per 100 block
Standard Brick:	7 bags of WORKRITE® per 1,000 brick 143 brick per bag of WORKRITE® 1 ton of sand per 1,000 brick

2. WHAT TYPE OF MORTAR DO I NEED FOR MY PROJECT?

SELECTION OF MORTAR*			
Location	Building Segment	Mortar Types	
		Recommended	Alternative
Exterior, above grade	Load-bearing walls	N	S or M
	Non-load-bearing walls	N	S
	Parapet walls	N	S
Exterior, at or below grade	Foundation walls, retaining walls, manholes, sewers, pavements, walks and patios	S	N or M
Interior	Load-bearing walls	N	S or M
	Non-load-bearing partitions	N	N

* Adapted from ASTM C270

3. WHICH WORKRITE® PRODUCT SHOULD I USE, AND HOW SHOULD I MIX IT?

MORTAR PROPORTION SPECIFICATIONS*						
Mortar Type	Parts by Volume					
	WORKRITE® Type			Portland Cement	Hydrated Lime	Aggregate Sand
	N	S	M			
N	1	-	-	-	-	2 1/4 to 3
	-	-	-	1	1/2 to 1 1/4	2 1/4 to 3
S	1	-	-	1/2	-	3 3/8 to 4 1/2
	-	1	-	-	-	2 1/4 to 3
	-	-	-	1	1/4 to 1/2	2 1/4 to 3
M	1	-	-	1	-	4 1/2 to 6
	-	-	1	-	-	2 1/4 to 3
	-	-	-	1	1/4	2 13/16 to 3 3/4

*Adapted from ASTM C270