



DIXIE

Masonry Cements

Type N, S, and M



MANUFACTURER

CEMEX
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PRODUCT DESCRIPTION

Dixie Masonry Cements are produced to meet the criteria of ASTM C91 “Standard Specification for Masonry Cements” for Types N, S, and M. (Table 1)

Dixie Masonry Cement consists of a mixture of Portland cement, limestone, and chemical admixtures to provide plasticizing properties and other enhanced performance attributes. These components are proportioned at the cement plant under controlled conditions to assure product consistency.

Basic Use: Dixie Masonry Cements are used to produce Types N, S, and M mortars as defined in ASTM C-270 “Standard Specification for Mortar for Unit Masonry.”

Dixie Masonry Cements when mixed with the recommended volumes of sand meeting ASTM C-144 “Standard Specification for Aggregate for Mortar for Unit Masonry” will produce a mortar that will comply with the requirements of ASTM C-270 for the Proportion Specification (Table 2) and the Property Specification (Table 3).

Availability: Dixie Masonry Cements are available in one cubic foot sacks containing a plastic moisture barrier and in bulk via pressurized bulk containers.

INSTALLATION

Mixing: Machine mixing should be used whenever possible. First, add most of the water and half of the sand. Next, add the masonry cement and the rest of the sand. After one minute of continuous mixing, slowly add the rest of the water. Mixing should continue for at least three minutes; extending mixing up to five minutes improves mortar qualities.

No admixtures should be used without the written approval of the architect or engineer of record. No additives are necessary, unless specified.

Water: All water should be clean and free from organic material and deleterious amounts of dissolved acids, alkalis and salts.

Retempering: To minimize retempering, mortar should not be mixed more than 15 minutes prior to use. Retempering will not adversely affect mortar quality if only evaporated water is replaced. Colored mortar should not be retempered.

Tooling of Joints: Tooling of mortar joints increases the density, durability and water tightness of the mortar surface. The moisture content of the mortar when tooled will affect the color; the drier the mortar, the darker its final color.

Table 1. ASTM C91 Masonry Cement

Physical Requirements of Masonry Cements			
Masonry Cement Type	Compressive Strength Min., psi (MPa)	Water Retention Minimum %	Air Maximum %
N	900 (6.2)	70	21
S	2100 (14.5)	70	19
M	2900 (20.0)	70	19

WARRANTY

CEMEX warrants that the products identified are in accordance with the appropriate current ASTM specifications. No one is authorized to make any modifications or addition to this warranty. CEMEX makes no warranty or representation either expressed or implied with respect to this product and disclaims any implied warranty of merchantability or fitness for a particular purpose.

As CEMEX has no control over the other ingredients mixed with this product or the final application, CEMEX does not and cannot warrant the finished work. The user is responsible for following industry standards and recommended practices.

In no event shall CEMEX be liable for direct, indirect, special, incidental or consequential damages arising out of the use of this product, even if advised of the possibility of such damages. In no case shall CEMEX's liability exceed the purchase price of this product.

PRECAUTIONS

Freshly mixed cement, mortar, grout or concrete may cause minor skin irritations. Avoid direct contact with skin and eyes and if contacted, wash exposed areas promptly with water. Refer to the applicable CEMEX product MSDS prior to use which may be obtained by calling 1-800-99-CEMEX (1-800-992-3639).

TECHNICAL SERVICES

CEMEX personnel are available to provide technical assistance by contacting 1-800-99-CEMEX (1-800-992-3639).

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Table 2. Proportion Specification (Parts by Volume)

Mortar Type	Masonry Cement Type N	Masonry Cement Type S	Masonry Cement Type M	Masonry Sand
N	1	-	-	2 1/4 - 3
S	-	1	-	2 1/4 - 3
M	-	-	1	2 1/4 - 3

Table 3. Property Specification

Under the Property Specification, the cement-to-sand proportions are to be in the range of 1:2 1/4 to 1:3 1/2, and should meet the requirements outlined in Table 3.

Mortar Type	Compressive Strength Min., psi (MPa)	Water Retention Minimum %	Air Maximum %
N	750 (5.2)	75	20
S	1800 (12.4)	75	18
M	2500 (17.2)	75	18

No changes should be made in the field to the laboratory established proportions for mortar that has been tested and accepted under the property specification, except for the quantity of mixing water.

Materials with different physical characteristics than those used in the laboratory should also not be used in the field without testing for compliance with the property specifications.