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## Technical Data Sheet

### ASTM C-91



#### PRODUCT NAME:

**Federal White Masonry Cement  
Type N and S  
ASTM Designation C- 91**

SDS

#### MANUFACTURER:

Federal White Cement  
P.O. Box 548  
Woodstock, Ontario  
Canada  
N4S 7Y5

Phone: 800-265-1806

Phone: 519-485-5410

Fax: 519-485-5892

#### BASIC USE:

Federal White Masonry Cement Type N and S can be used to match, contrast, and compliment the colors of various masonry units, enhance the aesthetic color of a wall or coordinate other colors in a design.

Federal White Masonry Cement may be used for any masonry application where a white or a very light colored masonry joint is desired. Pure white masonry mortar is obtained with the use of a clean white sand. The use of local mason sands will produce a mortar color related to the color of the sand.

Federal White Masonry Cement, when proportioned with white sand, may be used with brick, cast stone, tile, pavers, concrete and glass block or for stucco applications.

Federal White Masonry Cement may be used to satisfy low alkali requirements.

#### TECHNICAL DATA:

Federal White Masonry Cement is manufactured to conform to all current requirements of ASTM Designation C-91.

See table for physical properties.

#### INSTALLATION:

Federal White Masonry Cement is complete as packaged, no admixtures are required or recommended.

Mix 1 bag ( 1 cu. ft.) of Federal White Masonry Cement Type N or S with 2 ¼ to 3 parts ( cu. ft. ) of well graded white mason sand meeting the requirements of ASTM C-144. Use clean potable water, sufficient to produce a workable consistency. Materials should be mixed for a minimum of 5 minutes to produce ASTM C-270 masonry mortar.

White masonry mortar is applied by the same methods as any other ASTM C-270 mortar. Care should be taken during striking so that the joint will not darken. Acrylic or nylon tools are recommended.

#### WARRANTY:

Federal White Masonry Cement complies with the current ASTM C-91. Federal White Cement makes no guarantee or warranty, expressed or merchantability with respect to this product.

#### AVAILABILITY AND COST:

Federal White Masonry Cement can be shipped to most destinations in the United States and Canada from our manufacturing plant or terminals located near most major cities. Shipments can be made by rail or truck in bulk or bag. Bag size will vary by type.

The price, F.O.B. destination, of Federal White Masonry Cement will be furnished by the manufacturer upon request.

Physical Property	Federal White Typical		ASTM C-91 Specification	
	Type N	Type S	Type N	Type S
Fineness #325 Sieve Maximum retained	12%	10%	24%	24%
Soundness Autoclave Maximum expansion	0.07%	0.06%	1.0%	1.0%
Gillmore Time of Set Initial, minutes Final, minutes Initial, minimum minutes Final, maximum minutes	160 280	150 260	120 1440	90 1440
Water Retention Minimum	91%	89%	70%	70%
Air Content Minimum Maximum	12%	11%	8% 21%	8% 19%
Compressive Strength – psi (Mpa) 7 Days 28 Days	1000(6.7) 1400(9.7)	1800(12.4) 2600(17.9)	500(3.4) 900(6.2)	1300 (9.0) 2100(14.5)

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