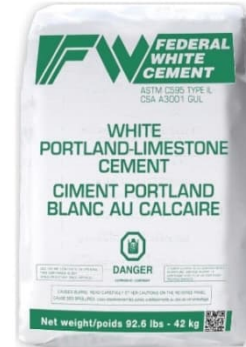


# WHITE PORTLAND-LIMESTONE CEMENT Type IL, Type GUL

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## PRODUCT DESCRIPTION

Portland-Limestone Cement; White Type IL, GUL The color of white portland limestone cement is determined by its raw materials and the manufacturing process. Metal oxides, primarily iron and manganese, influence the whiteness and undertone of the material. Federal White Cement is a Portland limestone cement manufactured with select raw materials to insure negligible amounts of iron and manganese oxides which are the chief contributors of grey cement color.



## BASIC USES

Federal White Cement can be used for all types of architectural or structural concrete construction where a whiter or brighter color may be needed for aesthetic or safety reasons.

## APPLICATIONS

Architectural precast panels/systems  
Cast-in-place  
Highway median barriers  
Tile grout Masonry units  
Swimming pools  
Colored masonry products

Stucco/Plaster  
Cement paints and coatings  
Hardscapes  
Tilt-up panel systems  
Roofing tiles  
Terrazzo floors

## Type IL, GUL:

General purpose blended cement is suitable for all uses where special properties of other types of blended cement are not required.

## APPLICABLE STANDARDS

ASTM C595, Standard Specification for Blended Hydraulic Cement  
AASHTO M240, Standard Specification for Blended Hydraulic Cement  
CSA A-3001, Cementitious Materials Used in Concrete

## PACKAGING

Federal White Cement is available in 42 kg (92.6 lb) bag 40 bags / pallet.

**NOTICE:** Obtain the applicable **LIMITED WARRANTY** at [www.targetproducts.com/product-warranty](http://www.targetproducts.com/product-warranty)  
Or send a written request to Target Products Ltd., Five Concourse Parkway, Atlanta, GA 30328, USA.  
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# WHITE PORTLAND-LIMESTONE CEMENT Type IL, Type GUL

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## TECHNICAL DATA

ASTM C595 REFERENCE SPECIFICATION CSA A 3001					
Item	Spec. Limit	Results	Compressive Strength, PSI		
SO <sub>3</sub>	3.0 max <sup>B</sup>	4.09	Item	Spec. Limit	Results
LOI	10.0 max	5.95	1-day	<sup>A</sup>	3112
Limestone Addition		11.08	3-day	1890	4311
Air, volume %	12 max	6.8	7-day	2900	5133
Blaine, m2/kg	<sup>A</sup>	509	28-day <sup>L</sup>	3620	5981
% Passing 325	<sup>A</sup>	98			
Density, g/cm <sup>3</sup>	<sup>A</sup>	3.01	Compressive Strength, MPa		
NA2Oeq. (Alkali Content)	<sup>A</sup>	0.35	Item	Spec. Limit	Results
			1-day	<sup>A</sup>	21.5
Test Method C1038 Mortar Bar	0.020% max		3-day	13	29.7
Expansion % <sup>B L</sup>	@ 14 days	0.005	7-day	20	35.4
			28-day	25	41.2
Vicat Set Time, Minutes					
• Initial	not ≤ 45	88			
• Final	not ≥ 420	170			

A. Not Applicable

B. It is permissible to exceed the values in the table for SO<sub>3</sub> content, provided it has been demonstrated by Test Method C1038 that the cement with the increased SO<sub>3</sub> will not develop expansion exceeding 0.020 % at 14 Days

L The value is based on the previous month.

We certify that the above-described cement at the time of shipment meets the chemical and physical requirements of the current applicable specifications of ASTM C595 and CSA A-3001.  
We are not responsible for improper use of workmanship.

## PRECAUTIONS

Direct contact with wet cement should be avoided. If contact occurs, the skin should be washed with water as soon as possible. Exposure can cause serious, potentially irreversible tissue destruction in the form of chemical (caustic) burns. If cement gets into the eyes, immediately rinse thoroughly with water and seek medical attention. For more information, reference the applicable Material Safety Data Sheet (MSDS).

## USE AND LIMITATIONS

Federal White Type I Portland Cement complies with the current ASTM C-150. Federal White Cement makes no guarantee or warranty, expressed or implied, including, without limitation, warranties of fitness or merchantability with respect to this product.

Architect should approve the color and surface texture of samples submitted by the contractor or precaster.

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