# **Ine Ariof Ariof White Cement**



CEMENT CONCRETE



CEMENT CONCRETE PAPER



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White cement for construction chemicals, precast, dry mortar, tile, curbstones, keystones and other aesthetic applications.





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OYAK Cement has the capacity to produce 1.100.000 tons of white cement annually in its Adana plants.

Cemeni

OYAK Cement has started white cement production with an annual capacity of 100.000 tons with its own facilities in 1998 in Adana Plant.

With the technological investment in 2009, the annual production capacity reached 350,000 tons and with the new production line commissioned at the beginning of 2018, the production capacity of Super White and Extra White Cement has reached to 1.100.000 tons per year.

OYAK Cement has reached to 84 different countries by its customer-oriented insight and has been offering various packaging types to meet customers needs.

Bagged (25 kg, 40 kg, 50 kg ), big bag, sling bag, liner bag and bulk options are available for our customers.



Minimum Whiteness 8% /alue

OYAK

Super

Türk

Türk Moli

OYAK

Super White

**25**kg

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Cement

EN 197-1:2011 CEM I 52,5 R

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(1%2)

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Super White Cement is a type of Portland cement manufactured with special selected raw materials. It is preferred in projects that require aesthetics and strength with its high whiteness and high compressive strength.



High Final strength

**Smoother** Surfaces

Long Workability



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%83 Minimum Whiteness Value



**Extra White Cement is a blended cement** in projects that require aesthetics and economy with its smoothness and fineness.



# produced by adding limestone. It is preferred

**Smoother Surfaces** 

Long Workability

**Fineness** 





Areas of Application

OYAI

# **Construction Chemicals**

Super white cement is used in producton of construction chemicals due to its high whiteness.



## **Advantages**

high adhesion property.

Provides high workability with long setting time.

Reduces the plasticizing chemicals usage with its suitable fineness.

Stable granulometry (Blaine).

strength values.

Provides an advantage in the amount of cement usage with its high strength property.

High early strength / High final strength.

with the added pigments.



Long setting time enables the manufacturer to save open-time regulator chemicals.

Advantageous in construction chemical applications with its

Provides advantages to the producers with its stable

Products of the desired color can be obtained

Aesthetic and decorative features.

Areas of Application

# **Precast Applications**

Super white cement is used in producton of precast building materials due to its high early and final strength.

# **Advantages**

High early strength / High final strength.

Increases production capacity thanks to rapid mold removal.

Provides low water absorption and low permeability to products thanks to suitable particle distribution.

Stable granulometry (Blaine).

added pigments.

Stable color tone.



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Reduces or eliminates steam curing.

Provides advantages for mass production with its stable strength values.

Products of the desired color can be obtained with the

Smooth surfaces are obtained thanks to suitable particle distribution.







# Technical Data

## SUPER WHITE CEMENT CEM I 52,5R WHITE

CHEMICAL ANALYSIS		ADANA CIMENTO VALUES	TS21/ EN197-1 STANDARD			
			Min.	Max		
SiO <sub>2</sub>	%	21,50	-	-		
Al <sub>2</sub> O <sub>3</sub>	%	4,40				
Fe <sub>2</sub> O <sub>3</sub>	%	0,22	-	-		
CaO	%	65,00				
MgO	%	0,90	-	-		
SO3	%	3,40	-	4,00		
Na <sub>2</sub> O	%	0,40	-	-		
K <sub>2</sub> O	%	0,30	-	-		
CI	%	0,0070	-	0,1000		
Loss on ignition	%	3,10	-	5,00		
Insoluble residue	%	0,10	-	5,00		
Free CaO	,	2,00	-	-		
PHYSICAL ANALYSIS						
Whiteness (Y value according to CIE)	%	86,00	85,00	-		
Residue on 45 micron sieve	%	0,5	-	-		
Residue on 90 micron sieve	%	0,0	-	-		
Specific weight	g/cm³	3,10	-	-		
Specific surface area (Blaine)	cm²/g	4400	-	-		
Water	ml	155	-	-		
Soundness	mm	2,0	-	10,0		
Initial setting time	min	115	45			
Final setting time	min	160	-	-		
COMPRESSIVE STRENGTH						
2 Days	Мра	38,0	30,0			
28 Days	Мра	58,0	52,5	-		

## EXTRA WHITE CEMENT CEM II/B-LL 42,5R WHITE

CHEMICAL ANALYSIS		ADANA CIMENTO VALUES	TS21/ EN197-1 STANDARD	
			Min.	Max
SiO <sub>2</sub>	%	19,0	-	-
Al <sub>2</sub> O <sub>3</sub>	%	3,7		
Fe <sub>2</sub> O <sub>3</sub>	%	0,22	-	-
CaO	%	61,6		
MgO	%	0,80	-	-
SO3	%	3,2	-	4,00
Na <sub>2</sub> O	%	0,3	-	-
K <sub>2</sub> O	%	0,3		
СІ	%	0,007	-	0,1000
Loss on ignition	%	10,0		
Insoluble residue	%	0,20	-	-
Free CaO		2,0		
PHYSICAL ANALYSIS				
Whiteness (Y value according to CIE)	%	84	-	-
Residue on 45 micron sieve	%	0,7	-	-
Residue on 90 micron sieve	%	0,0	-	-
Specific weight g/o	cm <sup>3</sup>	3,0	-	-
Specific surface area (Blaine) cm	²/g	5300	-	-
Water	ml	155	-	-
Soundness n	nm	2,0	-	10,0
Initial setting time r	nin	100	60	-
Final setting time r	nin	145	-	-
COMPRESSIVE STRENGTH				
2 Days M	pa	30,0	20,0	
28 Days M	pa	50,0	42,5	62,5
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Ukraine

Romania

# Turkish Republic of Northern Cyprus

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