




ARCEM



CEMENT ADDITIVES
PRODUCT GROUPS BROCHURE



Yapichem Kimya Sanayi A.Ş. was founded in 2011 by a team of professionals with vast experiences in the construction chemicals business. Today, with production facilities throughout Turkey, and an extensive partner network around the globe, **Yapichem** is internationally recognized as an expert in providing high quality specialty chemicals to Concrete, Cement and Construction Industries.

By our state-of-the-art laboratories and R&D facilities, we are able to cater to our customers' specific needs by producing tailor-made, high performance products for each customer and project. Our technology and innovation-based approach combined with our customer-centric culture enables us to dedicate ourselves to continuous, solution-oriented and exceptional customer experience.

At **Yapichem**, we are passionate about innovation, customer satisfaction and building lasting relationships with utmost care and respect to the community, employees, suppliers and environment.

Production

Our 300.000 MT annual production capacity of İstanbul, İzmir and Gaziantep factories strategically positioned near transportation hubs and wide logistical network enables us to provide fast product delivery across the globe.



Technology

Our expert engineering team develop innovative, high performance, and high-quality products tailor-made to customers' specific needs at our state-of-the-art R.&D, Concrete and Cement laboratories.

Concrete Lab | Cement Lab | R&D Lab



Products Tailor Made to Customer Needs



Investment in Continuous R&D



Extensive Concrete and Cement Trial Experience & Data



The Advantage of Semi-Product Formulation Know-How

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CEMENT ADDITIVES

The ARCEM logo is a red square containing the word "ARCEM" in white, bold, sans-serif capital letters. Below the text is a smaller version of the stylized square icon seen in the YAPICHEM logo.

ARCEM

- Strength and Capacity Increasing Cement Additives
- Grinding Aid Cement Additives
- Pack Set Inhibitors
- Chrome (VI) Reducing Cement Additives


ARCEM Series products are Cement and Mineral Additives. They are used at cement factories as grinding agents (capacity increase), quality enhancers (strength increase), chromium reducers, and pack-set reducers. They may provide one or more than one of the above mentioned properties.

ARCEM



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- Grinding Aid Cement Additives
- Pack Set Inhibitors
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		PRODUCTS	ARCEM FORCE SERIES	ARCEM FINE SERIES	ARCEM MINERAL SERIES	ARCEM PACK SERIES	ARCEM Ch-R SERIES
PURPOSE OF USAGE	Cement Grinding Aid			■			
	Grinding Aid and Strength Enhancer		■				
	Enhancing Early and Final Strength		■				
	Pack Set Inhibitor		■			■	
	Cr (IV) Reducer in Cement						■
	Mineral Grinding Aid				■		



ARCEM FORCE Series

Strength and Capacity Increasing Cement Additives

Product Description

ARCEM FORCE SERIES products are strength and capacity increasing cement additives used as early and final strength enhancers for all cement types.

TECHNICAL PROPERTIES

Chemical Base

Alkanolamines based

Color / Appearance

Homogeneous liquid

Advantages

- Increases quality and strength of cement.
- Reduces water demand of cement.
- Achieves high mechanical strengths for short, mid and long terms.
- Resolves pack set problem and increases mill capacity.
- Grinding aids neutralizes coagulation forces.
- Provides energy savings.
- Reduces cement production costs.
- Increases cement flowability by decreasing the agglomeration of cement particles.
- Obtains desired cement fineness faster.
- Achieves self-setting of cement in the silos.

Areas of Use

- All types of cement production
- Ball mills (closed and open circuits)
- Vertical mills
- Other grinding systems

Terms of Use

ARCEM FORCE SERIES products should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Consumption Dosage

ARCEM FORCE SERIES products' dosage should be determined by preliminary trials to be made in the factory, according to the optimum dosage of the desired cement properties.

Method of Application

ARCEM FORCE SERIES products are dropped directly onto the clinker on the conveyor. Balanced dosing is provided by using the appropriate dosage pump in the additive addition.

Packaging

- 250 kg drum
- 1000 kg container
- Bulk

Storage and Shelf Life

Shelf life is 12 months from the date of production when stored in original unopened and undamaged packages (drums, barrels, IBC containers) at temperatures between +5 °C and +35 °C, protecting from direct sunlight, excessive heat and frost. If the product has waited for a long time, make it homogeneous by mixing it mechanically before using it.

Make sure that the product does not freeze. If the product freezes, it should be thawed by keeping it at room temperature without using direct heat and mixed by mechanical methods until it becomes homogeneous.

Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. ARCEM FORCE SERIES products are not flammable. For detailed safety information please consult the product's Safety Data Sheet (SDS).



Products of Series

- ARCEM FORCE 160 / FORCE 160 R1
- ARCEM FORCE 252
- ARCEM FORCE 306 / FORCE 306 R
- ARCEM FORCE 312
- ARCEM FORCE 314
- ARCEM FORCE 315 / FORCE 315 R
- ARCEM FORCE 505
- ARCEM FORCE 511 / FORCE 511 R
- ARCEM FORCE 512 / FORCE 512 ER
- ARCEM FORCE 517
- ARCEM FORCE 520
- ARCEM FORCE 521 / FORCE 521 R
- ARCEM FORCE 522 / FORCE 522 K
- ARCEM FORCE 524
- ARCEM FORCE 530
- ARCEM FORCE 540
- ARCEM FORCE 541
- ARCEM FORCE 542
- ARCEM FORCE 545
- ARCEM FORCE 550
- ARCEM FORCE 553
- ARCEM FORCE 554 / FORCE 554 A
- ARCEM FORCE 560
- ARCEM FORCE 600
- ARCEM FORCE 601
- ARCEM FORCE 602 / FORCE 602 HS
- ARCEM FORCE 606
- ARCEM FORCE 611
- ARCEM FORCE 612
- ARCEM FORCE 614
- ARCEM FORCE 1023 S
- ARCEM FORCE 1035
- ARCEM FORCE 1037
- ARCEM FORCE 4286



ARCEM FINE Series

Grinding Aid Cement Additives

Product Description

ARCEM FINE SERIES products are a cement additive that is used as grinding aid for all cement types.

TECHNICAL PROPERTIES

Chemical Base	Alkanolamines, glycols based	Color / Appearance	Homogeneous liquid
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Advantages

- Increases dispersion and grinding efficiency.
- Resolves pack set problem and increases mill capacity.
- Grinding aids neutralizes coagulation forces.
- Provides energy savings.
- Reduces cement production costs.
- Increases cement flowability by decreasing the agglomeration of cement particles.
- Desired cement fineness is obtained at a shorter time.
- Achieves self-setting of cement in the silos.

Areas of Use

- All types of cement production
- Ball mills (closed and open circuits)
- Vertical mills
- Other grinding systems

Terms of Use

ARCEM FINE SERIES products should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Consumption Dosage

ARCEM FINE SERIES products' dosage should be determined by preliminary trials to be made in the factory, according to the optimum dosage of the desired cement properties.

Method of Application

ARCEM FINE SERIES products are dropped directly onto the clinker on the conveyor. Balanced dosing is provided by using the appropriate dosage pump in the additive addition.

Packaging

- 250 kg drum
- 1000 kg container
- Bulk

Storage and Shelf Life

Shelf life is 12 months from the date of production when stored in original unopened and undamaged packages (drums, barrels, IBC containers) at temperatures between +5 °C and +35 °C, protecting from direct sunlight, excessive heat and frost. If the product has waited for a long time, make it homogeneous by mixing it mechanically before using it.

Make sure that the product does not freeze. If the product freezes, it should be thawed by keeping it at room temperature without using direct heat and mixed by mechanical methods until it becomes homogeneous.

Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. **ARCEM FINE SERIES** products are not flammable. For detailed safety information please consult the product's Safety Data Sheet (SDS).



Products of Series

- ARCEM FINE 100
- ARCEM FINE 111
- ARCEM FINE 112
- ARCEM FINE 115
- ARCEM FINE 116
- ARCEM FINE 118
- ARCEM FINE 123
- ARCEM FINE 132
- ARCEM FINE 141
- ARCEM FINE 142
- ARCEM FINE 300
- ARCEM FINE 800
- ARCEM FINE 1117

ARCEM MINERAL Series

Mineral Grinding Chemical Additives

Product Description

ARCEM MINERAL SERIES products are a mineral grinding chemical that is used as grinding aid for mineral, coal, calcium carbonate, limestone, silica, calcium oxide etc. They are also chemical additives developed for grinding minerals used for food.

TECHNICAL PROPERTIES

Chemical Base

Alkanolamines, glycols based

Color / Appearance

Homogeneous liquid

Advantages

- Increases grinding efficiency.
- Provides energy savings.
- Reduces mineral grinding costs.
- Increases powder flow ability.
- Decreases the agglomeration of mineral particles.
- Reduces or eliminates blockages in silos.

Areas of Use

Used in the grinding process of the following minerals and cement raw materials at vertical mills and ball mills.

- Barite
- Barium sulfate
- Limestone
- Calcium carbonate
- Calcium oxide
- Calcium sulfate
- Chrome oxide
- Dolomite
- Perlite
- Feldspar
- Magnesium
- Quartz
- Zinc

Terms of Use

ARCEM MINERAL SERIES products should be accurately dispensed through a calibrated dosing system, suitable for the grinding mill and output required.

Consumption Dosage

ARCEM MINERAL SERIES products' dosage should be determined by preliminary trials to be carried out in the factory according to the optimum dosage of the desired grinding properties.

Method of Application

ARCEM MINERAL SERIES products are dropped directly onto the minerals on the conveyor. Balanced dosing is provided by using the appropriate dosage pump in the additive addition.

Packaging

- 250 kg drum
- 1000 kg container
- Bulk

Storage and Shelf Life

Shelf life is 12 months from the date of production when stored in original unopened and undamaged packages (drums, barrels, IBC containers) at temperatures between +5 °C and +35 °C, protecting from direct sunlight, excessive heat and frost. If the product has waited for a long time, make it homogeneous by mixing it mechanically before using it.

Make sure that the product does not freeze. If the product freezes, it should be thawed by keeping it at room temperature without using direct heat and mixed by mechanical methods until it becomes homogeneous.



Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. **ARCEM MINERAL SERIES** products are not flammable. For detailed safety information please consult the product's Safety Data Sheet (SDS).

Products of Series

- ARCEM MINERAL 100 / MINERAL 100 R
- ARCEM MINERAL 500 / MINERAL 500 FOOD
- ARCEM MINERAL 501
- ARCEM MINERAL 502
- ARCEM MINERAL 503
- ARCEM MINERAL 505
- ARCEM MINERAL 606



ARCEM PACK Series

Pack Set Inhibitor

Product Description

ARCEM PACK SERIES products are cement additives used as grinding aid and pack set inhibitor for all cement types.

TECHNICAL PROPERTIES

Chemical Base	Alkanolamines, glycols based	Color / Appearance	Homogeneous liquid
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Advantages

- Increases dispersion and grinding efficiency.
- Resolves pack set problem and increases mill capacity.
- Reduces cement production costs.
- Increases cement flowability by decreasing the agglomeration of cement particles.
- Desired cement fineness is obtained at a shorter time.
- Achieves self-setting of cement in the silos.

Areas of Use

- All types of cement production
- Ball mills (closed and open circuits)
- Vertical mills
- Other grinding systems

Terms of Use

ARCEM PACK SERIES products should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Consumption Dosage

ARCEM PACK SERIES products' dosage should be determined by preliminary trials to be made in the factory, according to the optimum dosage of the desired cement properties.

Method of Application

ARCEM PACK SERIES products are dropped directly onto the clinker on the conveyor. Balanced dosing is provided by using the appropriate dosage pump in the additive addition.

Packaging

- 250 kg drum
- 1000 kg container
- Bulk

Storage and Shelf Life

Shelf life is 12 months from the date of production when stored in original unopened and undamaged packages (drums, barrels, IBC containers) at temperatures between +5 °C and +35 °C, protecting from direct sunlight, excessive heat and frost.

If the product has waited for a long time, make it homogeneous by mixing it mechanically before using it.

Make sure that the product does not freeze. If the product freezes, it should be thawed by keeping it at room temperature without using direct heat and mixed by mechanical methods until it becomes homogeneous.

Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. ARCEM PACK SERIES products are not flammable. For detailed safety information please consult the product's Safety Data Sheet (SDS).

Products of Series

- ARCEM PACK 100
- ARCEM PACK 200
- ARCEM PACK 300
- ARCEM PACK 400
- ARCEM PACK 500
- ARCEM PACK 523 (ARCEM FORCE 523)

ARCEM Ch-R Series

Chrome (VI) Reducing Cement Additives



Product Description

ARCEM Ch-R SERIES products are the chrome reducing agent that transforms Cr (VI) into Cr (III) for all cement types, during cement hydration by acting on soluble chromates.

TECHNICAL PROPERTIES

Chemical Base	Liquid Products: Antimony based Powder Products: Iron (II) Sulfate	Color / Appearance	Homogeneous viscous liquid Light green powder
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Advantages

- Reduces health problems caused by chrome.
- Achieves high rates of chrome reduction with low doses.
- Positive influence on early and late strength of cement.

Areas of Use

In all types of cement, it is used to reduce Chromium (VI) below 2 ppm during production

Terms of Use

ARCEM Ch-R SERIES products should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Consumption Dosage

ARCEM Ch-R SERIES products' dosage may differ according to the properties of optimum dosage clinker, cement type and factory properties.

Method of Application

Products in liquid form are used by dripping directly onto the clinker on the conveyor, and powder products are used by blending with ground cement during packaging. Balanced dosing is provided by using the appropriate dosage pump in the additive addition.

Packaging

- 250 kg drum
- 1000 kg IBC container
- 25 kg bag

Storage and Shelf Life

Shelf life is 12 months from the date of production when stored in original unopened and undamaged packages (drums, barrels, IBC containers) at temperatures between +5 °C and +35 °C, protecting from direct sunlight, excessive heat and frost. If the product has waited for a long time, make it homogeneous by mixing it mechanically before using it.

Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application, in case of contact wash off thoroughly with soap and water, if ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. ARCEM Ch-R SERIES products are not flammable. For detailed safety information please consult the product's Safety Data Sheet (SDS).

Products of Series

- ARCEM Ch-R 100
- IRON (II) SULFATE



You can see detailed information about our products
by clicking on the brand logos or by scanning the QR codes.

Concrete
Additives

Concrete
Additives

Special Concrete Additives
and Complementary Products

Cement
Additives

Construction
Chemicals

ARSTEP

DEGASET

ARSET

ARCEM

YAPIFINE



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