



OMEGA INDUSTRIES

AN ISO 9001:2008 COMPANY

MANUFACTURERS OF INDUSTRIAL OILS AND GREASES

PLOT NO. E-21, M.I.D.C. KUPWAD, Dist. - Sangli 416 436. (Maharashtra)

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OMEGA ALMAZ – 404 AAC

High Performance concrete super plasticizer for fly ash bricks and used as accelerator in hardening process of fly ash bricks leading to quick set and get high strength initially

Description: ALMAZ – 404 AAC is differentiated from conventional super plasticizer and it is based on a unique Polymer base with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete. Almaz 404 AAC reduces water consumption by more than 13% of fly ash bricks.

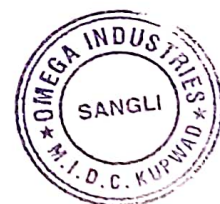
ALMAZ – 404 AAC combines properties of water reduction and workability retention. It allows the production of high performance concrete with high workability. It is a particularly strong super-plasticizer allowing production of consistent concrete properties around the required dosage.

Advantage:

- Increased early and ultimate compressive strengths, increased flexural strength and E modulus.
- Improved adhesion to reinforcing and prestressing steel and non reinforced concrete.
- Better resistance to carbonation.
- Lower permeability and shrinkage.
- Better resistance to aggressive atmospheric condition reduced shrinkage and creep.
- Increased durability and reduce efflorescence.
- Improved surface finish
- Rapid Set time.

Uses: ALMAZ – 404 AAC is a high-performance super plasticizer intended for applications where increased early and ultimate compressive strengths are required, and it has been developed for use in:

- Rapid set time.
- High early compressive strength.
- Excellent finish.
- High performance concrete low shrinkage





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Application Instructions: ALMAZ – 404 AAC has to be added on to wet concrete mix for best results. In other words, after adding and mixing about 85% to 90% of total mixing water with other ingredients of concrete and remaining admixture is diluted in the remaining water and added on the already mixed, wet concrete. Now the entire batch of concrete is mixed again thoroughly to ensure uniform spreading of ALMAZ – 404 AAC

Specification:

- Meets ASTM C – 494 Type G
- Meets IS 9103 - 1999

Properties:

Sr. No.	Parameters	Results
01.	Appearance	Pale Yellow
02.	Form	Liquid
03.	Ingredient	Polymer base
04.	Sp. Gravity @25°C	1.16
05.	PH Value	Max. 6.5
06	Chloride Content	Nil
07.	Dry Material Content	22+-1%
08.	Viscosity @25°C FCB4	16.39°C

Dosage: The optimum dosage of ALMAZ – 404 AAC to meet specific requirements should be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.7 to 1.20% by weight of cement material. Admixture to meet specific requirement should always be determined by trials using the Almaz 404 AAC different doses.

Packing: ALMAZ – 404 AAC is supplied in 225 kgs. Containers.

Storage: ALMAZ – 404 AAC has a minimum shelf life of 24 months at the temp of 40°C to 50°C in and unopened condition.





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Health and safety instructions: ALMAZ – 404 AAC does not fall into hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately- do not induce vomiting. For further information consult the Material Safety data Sheet available for this product.

Additional Information: Technical data sheets and guidance can be provided on wide range of admixtures, water proofing systems, epoxies, Repair products etc. will be available on request from the technical cell or ALMAZ – 404 AAC

Legal Notes: The user should test the product suitability before major work to select dose size etc. In practice the differences in material, sand, cement, substrates and actual site atmospheric condition like, temperature, rain and cold etc. are variable and uncontrollable and are such that no warranty in respect of fitness and merchantability for particular purpose. All technical information above is on the basis of our Lab. Trials. Actual data may vary due to site conditions beyond our control.

