

### Essen Supplements: Making dreams durable

Essen Supplements India Limited, Hyderabad in Collaboration with German stalwart M/s. Rethmeir GmbH, is manufacturing a complete range of construction chemicals, using state-of-the-art technology, since 1994. The range of products offered by the company includes:

- *Conflow SNP1*: Normal WR plasticiser
- *Conflow SNS1*: HRWR superplasticiser
- *Conflow SNS2*: HRWR accelerating superplasticiser
- *Conflow SNS3 Special*: HRWR retarding superplasticiser
- *Conflow SNR*: Normal WR retarding plasticiser
- *Conflow SNA*: Normal WR accelerating plasticiser
- *Conflow SNE*: Normal WR air entraining plasticiser
- *Shotset SN1*: Set accelerator for shotcreting guniting
- *Morflow SN1*: High performance mortar plasticiser

These admixtures have become almost an inseparable part of the concrete industry. They are complex chemicals, which are added to the concrete mix to modify or improve its properties (both in the fresh state and hardened state).

These chemical admixtures are normally compatible with all types of OPC and cement replacement materials, such as pulverized fuel ash (PFA), ground granulated blast furnace slag (GBBS), micro silica etc. They meet the stringent quality requirements of various standards like ASTM-C494, BS: 5075, IS: 9103-1999.

These chemical admixtures are added to the concrete mix at a rate percent of 0.2 to 5 by weight of cement, depending on mix proportions, site requirements, climatic conditions etc. and the correct optimum dosage and compatibility with locally available materials is ascertained by conducting proper site trials.

#### Advantages

When added to wet concrete mix, they increase the workability resulting in flowing concrete, which eases the placement of concrete without any vibration or compaction requirement, even in congested reinforce-

ment areas. When used as water reducing agent they give high ultimate strengths without affecting the workability. They are chloride free, hence does not affect the reinforcement. They can be tailored made to meet specific requirements namely, retardation, acceleration, air entrainment, water-proofing etc. High cement reductions are possible with certain types of superplasticisers, without affecting the ultimate strength of concrete, thereby achieving enormous cost savings and economics.

To name a few, Birla Ready Mix, Ramco Ready Mix, L & T, Naptha Jhakery Power Project, Srisaillam Power Project, Ramoji Film City, Fletcher Challenge Concrete Industry (I) Pvt. Ltd., Cental Railways etc. are the prestigious users of these quality concrete admixtures. Also these chemical admixtures have been approved and enlisted in roads and building department of P.W.D., Government of Andhra Pradesh.

For further details, please contact:

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