

Lyksor® TIPA

Set Accelerating And Strength Enhancer Raw Material for High-Range Water Reducing / Superplasticizer Concrete-Cement Admixtures

Product Definition

Triisopropanolamine (TIPA) is a hydroxylamine compound with organic amine and Hydroxyl used in admixture especially for increasing final strengths of cement, concrete and mortar.

Use

TIPA is used in the following conditions and applications.

- For high performance concrete production.
- For precast and precast concrete production.
- For concrete admixture formulations where early strength is desired.
- For Ready-mixed concrete production with and without pump.
- For increasing the final and early strength of concrete.
- Improves the grinding efficiency resulting energy savings.

Application Details

It is generally compatible to use TIPA in concrete admixture recipes with Naphthalene Sulfonate, Melamine Sulfonate, Lignin Sulfonate and Polycarboxylate based raw materials.



Technical Properties

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|-----------------------------------|--|
| Colour: | Colourless to light yellow liquid |
| Physical Form(25°C): | Liquid |
| Structure Formula: | C ₉ H ₂₁ NO ₃ |
| TIPA Content: | 85.0% Min. |
| Water Content: | 10.0-15.0 % |
| MIPA and DIPA Content: | 3.0% Max. |
| Smelling: | Very light ammoniac odour |
| Molecular weight: | 163.22 |
| Freezing Point: | 3-8°C |
| Boiling Point: | 104-107°C |
| Flash Point: | Min.154°C on dry base |
| Specific Gravity (25/4°C): | 1.027 |
| Viscosity (25°C): | 400-500cps |