



SAFFROKOL™

SAFFROKOL GOLD FIX 1001 AW+

Technical Data Sheet



Capillary-Blocking
Action



Water-Repellent
Matrix



Corrosion
Protection



Enhanced
Workability



Crack Reduction



Easy
to use

PRODUCT DESCRIPTION

Saffrokol Gold Fix 1001 AW+ is an advanced, high-performance integral liquid waterproofing compound scientifically formulated with premium surface-active plasticizing agents, specialized polymers, and performance-enhancing additives. This next-generation formula creates a hydrophobic barrier within the concrete matrix while improving cohesiveness and preventing segregation. The unique molecular structure bonds with cement particles to form an impermeable network that blocks water penetration from all directions.

APPLICATION AREAS

- Basement structures and retaining walls
- Roof slabs, terraces, and screeds
- Water tanks, swimming pools, and water-retaining structures
- External plastering and facades
- Bathrooms, toilets, and balconies
- Sumps, drains, and sewage treatment plants

FEATURES AND BENEFITS

- Water-Repellent Matrix – Forms a complete waterproof barrier throughout the concrete, not just at the surface
- Capillary-Blocking Action – Seals microscopic pathways to prevent water migration in concrete
- Corrosion Protection – Shields steel reinforcement by stopping water and chloride penetration
- Strength Preservation – Maintains concrete's mechanical properties while adding water resistance
- Crack Reduction – Minimizes shrinkage cracking, creating more durable concrete structures
- Enhanced Workability – Improves concrete flow and placement without additional water

DOSAGE

200 ml – 250 ml per 50 kg bag of cement (Dosage may be adjusted based on specific site conditions and requirements)

TECHNICAL DETAILS

Complies to IS 2645:2003, 9103:1999, IS 4031:1988 (Part 5 & 6), IS 6925:1973

Parameter	Results
Appearance	Brown Liquid, Specialized active ingredients
Base	Specialized Active ingredients
Specific Gravity	1.15 ± 0.03 Kg/l
pH	9±2
Chloride Content	< 0.02%
Water Permeability	Passing half of the greater than of the control specimen
Initial Setting time	Passing Reduction of initial setting time 25% more than the control
Final Setting Time	Passing Increase of final setting time more than 25%
Compressive Strength	Passing 90% of the control

APPLICATION INSTRUCTIONS

1. Material Preparation:

- Ensure all raw materials (cement, aggregates, sand) meet quality standards before mixing
- Check that mixing equipment is clean and in proper working condition
- Measure all components accurately for consistent results

2. Initial Dry Mixing:

- Charge cement and aggregates to concrete mixer as per requirements
- Mix thoroughly in dry state for 1–2 minutes to ensure uniform distribution of materials
- This step is crucial for achieving a homogeneous final product

3. Primary Water Addition:

- Start addition of 75–80% of the total required mixing water to the dry mix
- Continue mixing for 2–3 minutes to allow proper hydration of cement particles
- Observe mix consistency and adjust if necessary while maintaining water–cement ratio limits

4. Saffrokol Gold Fix 1001 AW+ Integration:

- Measure the required amount of Saffrokol Gold Fix 1001 AW+ (200 ml – 250 ml per 50 kg cement)
- Add the product to the remaining 20–25% of mixing water and stir gently
- Slowly introduce this solution into the mixer while continuing the mixing process
- Mix for an additional 2 minutes to ensure complete and uniform dispersion of the additive

5. Placement and Finishing:

- Place the concrete or apply plaster immediately after mixing
- Use appropriate placement techniques to minimize air entrapment
- Properly compact the concrete using vibration methods when applicable
- Finish the surface according to project specifications

6. Curing Protocol:

- Begin curing as soon as the concrete or plaster has set enough to resist surface damage
- Maintain continuous curing for at least 7 days using standard construction practices
- Protect newly placed concrete from extreme temperatures, rapid drying, and premature loading
- For optimal results, use wet curing methods such as ponding, wet burlap, or curing compounds

Precautions & Limitations

- Do not add Saffrokol Gold Fix 1001 AW+ directly to dry cement & aggregate mix
- Maintain water-cement ratio as low as possible for optimal waterproofing performance
- Do not exceed recommended dosage as higher amounts may affect concrete properties
- Conduct preliminary trials to determine optimal dosage for specific applications
- Not recommended for use in temperatures below 5°C or above 40°C

Health & Safety Precautions

- Use appropriate personal protective equipment including rubber gloves & safety goggles
- Ensure adequate ventilation in confined working areas
- In case of skin contact, wash thoroughly with water
- If eye contact occurs, rinse immediately with plenty of water and seek medical advice
- If ingested, do not induce vomiting and seek immediate medical attention
- Keep out of reach of children

SHELF LIFE & STORAGE

- □ Best before 2 years from date of manufacture when stored in original sealed packaging □ Store in a cool, dry place away from direct sunlight □ Protect from freezing temperatures and extreme heat □ Keep containers tightly closed when not in use



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