



# SAFFROKOL™

## SUPERCRETE URP

Technical Data Sheet



Reduces Surface  
Dusting



Waterproof  
Coatings



Improves  
Impermeability



Minimizes  
Shrinkage



Excellent  
Adhesion



Easy  
Mixing

## PRODUCT DESCRIPTION

Saffrokol Supercrete URP 3001 is a high performance, modified styrene butadiene rubber (SBR) latex supplied as a ready to use liquid bonding agent and mortar additive. Specially formulated to enhance adhesion, flexibility, and durability, it is ideal for repairing spalled concrete, waterproofing wet areas, and modifying cementitious mortars for improved mechanical and water resistant properties

## FEATURES AND BENEFITS

- Ensures excellent adhesion between old and new concrete, and between concrete and plaster or masonry.
- Improves impermeability in bathrooms, toilets, terraces, and water-retaining structures.
- Minimizes shrinkage and reduces the likelihood of surface cracking.
- Improves abrasion resistance and reduces surface dusting, ideal for floors and slabs.
- Increases impact resistance and elasticity of repair mortars and screeds.
- Supplied in liquid form for easy mixing with water and cementitious materials.
- Suitable for grouting, renders, screeds, tile fixing, and protective waterproof coatings

## SUITABLE FOR

- Used for repairing spalled or damaged concrete in structural elements such as slabs, beams, columns, floors, and parapets.
- Suitable for waterproofing small roof terraces, sunken areas of bathrooms and toilets, balconies, lift pits, and chajas.
- Acts as a bonding coat between new and existing concrete surfaces, plaster, masonry, and stonework.
- Ideal for fixing or re-fixing slip bricks, ceramic tiles, natural stone, and marble for cladding or floor finishes.
- Used as an external render additive to enhance resistance to weathering and frost.
- Applied as a bonding slurry coat to treat pinholes and surface defects in concrete substrates

## TECHNICAL DETAILS

Complies to ASTM C 1059 Type II, EN 12190

| Parameter            | Results   |
|----------------------|---|
| Appearance & Base    | SBR latex modified viscous liquid                         |
| Color                | Milky White   |
| Specific Gravity     | 1.10 ± 0.02 Kg/L  |
| pH                   | 9±1   |
| Solids               | ≥ 45%   |
| Compressive Strength | ≥ 40.0 N/mm <sup>2</sup> @ 28 days ("Specific Mix Design) |
| Bond Strength        | ≥ 4.50 N/mm <sup>2</sup>                                  |
| Tensile Strength     | ≥ 3.50 N/mm <sup>2</sup>                                  |
| Adhesion to Concrete | ≥ 2.1 N/mm <sup>2</sup> (Concrete Failure)                |
| Water Resistance     | Up to 3 bar pressure                                      |

## APPLICATION INSTRUCTIONS

### 1. Surface Preparation

- Clean the surface thoroughly using a wire brush or scrubber to remove dust, loose particles, laitance, grease, and hidden dirt.
- Use suitable solvents for degreasing if needed.
- Cut back the edges of spalled concrete areas to a minimum depth of 10 mm to eliminate feather edges and ensure a strong bond.
- Where breaking is not possible, clean and roughen the surface by light scrubbing or grit blasting.
- Saturate the surface with clean water before application, ensuring all excess water is removed.

## 2. Waterproofing Coating

- Mix Saffrokol Supercrete URP 3001 with cement in a ratio of 1:1.5 by volume.
- Stir for 2–3 minutes to avoid air entrapment, slowly adding cement into the URP until a brushable consistency is achieved.
- Apply two coats with a brush at an interval of 4–6 hours.
- Protect the coating with a cement–sand screed of desired thickness and slope

## 3. Bonding Primer

- Mix URP : Cement in a 1:1 ratio by volume.
- Apply a single, continuous coat to the prepared substrate.
- Lay the repair mortar while the bond coat is still tacky for best results

## 4. Repair Mortars & Renders

Recommended mix:

- Cement – 50 kg
- Washed sand – 150 kg
- Saffrokol SBR Latex: 5–6 kg
- Water: 15–16 litres (adjust as needed for desired consistency)
- Mix thoroughly to achieve a uniform consistency suitable for application.

## 5. Floor Screeds & PCC

Recommended mix:

- Cement – 50 kg
- Washed sand – 75 kg
- 6 mm aggregates – 75 kg
- Saffrokol Supercrete URP 3001 – 5 to 5.5 kg
- Water – approx. 10 litres

## 6. Mixing & Application

- Use a PAN mixer or a slow-speed (400–500 rpm) heavy-duty electric drill with a spiral paddle.
- Hand mixing is permissible for small batches ( $\leq 25$  kg).
- First mix the dry components (cement, sand, aggregates), then add the pre-batched solution of URP and water.
- Mix for 2–3 minutes until a lump-free, homogeneous mix is achieved. Avoid overmixing to prevent air entrapment.

## Precautions

- Apply only when substrate and ambient temperatures are between +5°C and +40°C
- Avoid application in direct sunlight, strong wind, or rain
- During application, continuously stir the mixture to prevent cement particles from settling
- Never use pure URP or just URP-water mix as bonding agent – always add cement and sand
- Maximum layer thickness for repair mortar: 20mm per application (apply multiple layers for greater thickness at 12-hour intervals)
- For severe water penetration areas, three coats of waterproofing may be required
- Clean all application equipment with water immediately after use

## Curing Requirements

- Protect freshly applied material from rapid water evaporation by covering with polyethylene film, wet burlap, or applying a curing compound
- Cure for minimum 3–5 days
- Do not pond with water before 5 days of curing
- Take extra care with curing during high temperatures, low humidity, or windy conditions

## STORAGE AND HANDLING

- Protect from frost and direct sunlight
- Store between +5°C and +35°C in unopened original packaging
- Mix consistency may vary with quality of sand and cement; adjust gauging water slightly based on site conditions
- Additional plasticizing admixture may be necessary for concrete or screed applications to maintain workability

## SHELF LIFE

Best before 24 months from the date of manufacture when stored in original, unopened packaging under recommended storage conditions



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