



# SKYMIX CONCRETE

SMIX FAST FIX

A RAPID HARDENING SEGMENT





# ABOUT OUR PRODUCT

- SMIX FAST FIX is supplied as a ready-to-use blend of dry powder, which requires only the addition of clean water at the site to produce a high-grade cement-based patch repairing mortar.
- The material is based on Portland cements, fillers, and additives that impart early strength.
- It achieves an initial set in 10 to 30 minutes, with the final set occurring in 20 to 90 minutes.
- Its quick-setting properties allow the surface to be opened to traffic 2 to 4 hours after repair.





# ADVANTAGES



EASY TO  
APPLY



HIGH EARLY STRENGTH  
AND FAST SETTING



Pre-packed to ensure  
consistency and avoid site-  
batched variations.



EXCELLENT ADHESION  
TO OLD CONCRETE  
SUBSTRATES.



ECONOMICAL AND  
DURABLE, CONTAINING NO  
CHLORIDES.



# TECHNICAL INFORMATION

TEST	SPECIFICATION
COLOUR	GRAY
APPEARANCE	POWDER
WET DENSITY	2200 to 2250 Kg/m <sup>3</sup>
WORKING TIME	10 MINUTES
COMPRESSIVE STRENGTH	> 20 N/mm <sup>2</sup> @ 2 hours > 25 N/mm <sup>2</sup> @ 4 hours > 40 N/mm <sup>2</sup> @ 1 day > 70 N/mm <sup>2</sup> @ 7 days > 80 N/mm <sup>2</sup> @ 28 days



# TECHNICALITIES

## PLACING

- **Immediate Application:** The mixed SMIX FAST FIX mortar should be placed immediately after mixing to take full advantage of its quick-setting properties. Delays can lead to premature setting, affecting the workability and performance of the material.
- **Pumping Method:** When applying the mortar by pump, ensure that standard concrete pumping practices are followed. This includes using a suitable pump that can handle the viscosity and quick-setting nature of the material.
- **Priming the Pump:** Before starting the actual pumping, the pump and pipeline must be primed with a cement slurry. This helps prevent blockages and ensures a smooth flow of the mortar through the pipeline.
- **Continuous Pumping:** Start pumping immediately after priming to maintain a continuous flow of the mortar. Interruptions can lead to setting within the pipeline, causing blockages and wastage.
- **Formwork Pouring:** If the mortar is poured into formwork, avoid air entrapment by pouring from one side only. This ensures that the mortar fills the formwork evenly and reduces the risk of voids or weak spots in the repair.





# CURING

- **Immediate Curing:** Curing should begin immediately after stripping the formwork to ensure that the repair reaches its intended strength and durability. Early curing helps prevent shrinkage cracks and ensures that the mortar retains its moisture for proper hydration.
- **Moisture Retention:** Cover the freshly placed mortar with wet burlap, plastic sheeting, or a curing compound to retain moisture. This is especially important for SMIX FAST FIX due to its fast-setting nature, which can lead to rapid moisture loss if not properly cured.
- **Temperature Considerations:** In hot weather, take extra precautions to keep the mortar cool during the curing process. This can be done by shading the work area or using cool water for curing.
- **Curing Duration:** Continue curing for at least 24 hours to ensure the mortar reaches sufficient early strength. For optimal results, curing can be extended depending on the environmental conditions and the criticality of the repair.
- **Avoid Premature Traffic:** While SMIX FAST FIX allows for early reopening to traffic, ensure that sufficient curing has occurred before subjecting the repair to heavy loads. This prevents damage to the still-hardening mortar and ensures long-term performance.





# PRECAUTIONS

- Always wear appropriate personal protective equipment (PPE) such as gloves, long sleeves, safety goggles, and a dust mask or respirator when handling SMIX FAST FIX.
- Ensure adequate ventilation in the work area to minimize dust inhalation.
- Wash skin thoroughly with soap and water after handling the material. If skin irritation occurs, seek medical attention.
- In case of eye contact, flush immediately with plenty of water and seek medical advice.
- Avoid eating, drinking, or smoking when working with the product to prevent accidental ingestion.





WE ARE

# SKYMIX CONCRETE

[WWW.SKYMIXCONCRETE.IN](http://WWW.SKYMIXCONCRETE.IN)

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