



VB MICRO MIX

(Micro concrete product)

Product Description:

VB Micro mix is supplied as a ready to use dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. It is UV resistant and crack Resistant. It is acrylic emulsion based, used as a cement modifier when applied, provides a good bond with masonry/ cement and thus improves the tensile and flexural strength properties of the mortar. It is a specially formulated cementations concrete and has free flow properties suitable for repairs.. This is specially designed for repairs to damaged reinforced concrete elements, particularly where areas is restricted and where vibration of the placed material is difficult or impossible. When it is used with combinations with standard quality of ordinary Portland cement, it enhances the mechanical properties such as bonding (adhesion) with various building materials, flexural, compression and impact strength.

Areas of Application:

- ❖ Waterproofing of building terrace, toilet sunken portion, basements, waterproofing of water tanks and swimming pools, industrial or factory floors, balconies, mechanical rooms, side walls, swimming pools etc.
- ❖ Repairing of concrete & masonry walls-internal, external and terrace roofs by cement mortars
- ❖ Repair to damaged reinforced concrete elements like slabs, beams, columns, wall etc., where access is restricted and compaction is not possible.
- ❖ For Jacketing of RCC columns to increase load taking capacity (strengthening of a vertical member)

APPLICATION

- ❖ Clean the surface and remove loose concrete, any dust, oil, paint, grease etc.
- ❖ Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Shot. Blasting is highly recommended
- ❖ Apply **VB Micro mix** over the clean re-bars and allow dry before continuing.
- ❖ Saturate the substrate with water to prevent absorption of water from the mixed material of **VB Micro mix**
- ❖ For a dry substrate, it should be primed by applying one coat of **VB Micro mix**.
- ❖ Mix **VB Micro mix** Micro Concrete with water (3.75 to 4 liters per 25 kg bag) till homogeneous mixes thoroughly.
- ❖ Mixing should be done thoroughly with a forced action mixer of adequate capacity, at least for 5 minutes.



- ❖ Pour or pump the mixed **VB Micro mix** Micro Concrete into a watertight shuttering in the repaired area,
- ❖ When primer area becomes tacky.
- ❖ Cure the repaired surface for minimum 7 days.

Advantages:

- ❖ Form hard, tough abrasion resistant coating
- ❖ Bonds strongly to concrete
- ❖ Resists fungus & micro-organism growth, Non-toxic, can be over coated with exterior emulsion coating or cement base paint
- ❖ Has a non-shrink property
- ❖ Easy to mix
- ❖ Flow able mortar hence does not require compaction
- ❖ Develop high initial and ultimate final strengths
- ❖ Offers excellent resistance to moisture ingress
- ❖ Makes repaired section highly durable
- ❖ Contains no chloride admixture

Packaging:

- ❖ 25 kg

Coverage:

- ❖ 1.3m²per 25kg packet 10mm thickness

Shelf Life

- ❖ When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months.
- ❖ Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.

Technical Data:

S.NO	PROPERTIES	Results
1	Compressive strength	500kg/cm ² at 28 days
2	Flexural strength days	50 kg/cm ² at 28 days
3	% water absorption after 24 hrs	0.45
4	Chlorides content	Nil



5	Depth of carbonation, mm	Passes the accelerated carbonation test
6	2 hours	Nil
7	4hours	Nil
8	Coefficient of thermal expansion	10-12*10 ⁻⁶ /°C
9	Yield	13.5 Liters

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- ❖ Apply **VB Micro mix** over the clean re-bars and allow dry before continuing.
- ❖ Saturate the substrate with water to prevent absorption of water from the mixed material of **VB Micro mix**
- ❖ For a dry substrate, it should be primed by applying one coat of **VB Micro mix**.
- ❖ Mix **VB Micro mix** Micro Concrete with water (3.75 to 4 liters per 25 kg bag) till homogeneous mix is obtained, at 30 C
- ❖ Mixing should be done thoroughly with a forced action mixer of adequate capacity, at least for 5 minutes.
- ❖ Pour or pump the mixed **VB Micro mix** Micro Concrete into a watertight shuttering in the repaired area,
- ❖ When primer area becomes tacky.
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Health & Safety Precautions

- ❖ **Micro mix** is non-toxic. It is advisable to wear goggles when spraying. Use under well ventilated conditions.
- ❖ Inhalation of the spray should similarly be avoided.
- ❖ Avoid skin contact. It shall be washed with clean water and a skin conditioning cream shall be applied.

Other Product Categories available with VBOND as below

- ❖ Premium Tile Adhesives



- ❖ Epoxy Grouts & Unsanded Grouts
- ❖ Micro Concrete and Repair Product
- ❖ Industrial/Precision Grout and Anchors
- ❖ Water Proofing and Injection Grouting Material
- ❖ VB-Ready Plaster
- ❖ Floor Screeds
- ❖ Epoxy Flooring
- ❖ Self-level Epoxy Flooring

Technical Services

Technical assistance information is available by calling the VBOND Technical Service at **+91 96664 96664** or mail us at **vcare@valuebond.in**

Address:

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Hyderabad, Telangana-500049

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Customer Care

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