



**V.S. WATERTREATMENT  
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## VS FLEXO-COAT EXTERIOR

## SPECIAL PAINTS

### Description

VSWMCO **VS-FLEXO-COAT** is water based Elastomeric Anti-carbonation versatile water proof exterior coating. This coating is formulated to confer long term protective and decorative properties to concrete and masonry surfaces, that need fortification from severe tropical condition during rain strong sun light and high humidity. Coating acts as a barrier to the ingress of Chlorides and Carbon Dioxide and other acid gases, but allows the passage of water vapor from the substrate. The elastomeric nature of

**VS-FLEXO-COAT** ensures good crack bridging properties. Nano technology system helps in deep penetrating in substrate

### Why ANTI-CARBONATION COAT?

The carbonation process weakens the structures and reduces the life of concrete structures.

Untreated concrete and masonry are Prom to the damaging ingress of carbon dioxide, water and chlorides. This can lead to structural damage, safety issues and expensive maintenance and repair work. Anti- carbonation refers to the ability of a coating to protect the substrate from attack by carbon dioxide. The coating prevents carbon dioxide coming into contact with the masonry substrate. Anti-Carbonation Paint reacts with the free lime in the concrete, and penetrates the concrete 2-3 Cm. inside the concrete. Anti -Carbonation Paint forms a layer in the concrete. This layer of Anti Carbonation Paint formed in the concrete, does not allow the CO<sub>2</sub> and other elements to enter the concrete structure and hence the carbonation of concrete is prevented

## Application Areas

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- Vertical surface Internal and External use
- Reinforced concrete columns, beams.
- Car parks, buildings, bridges, subways
- Where there is insufficient cover to reinforcement
- commercial and industrial buildings

## Advantages

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- Resistant to carbonation, Weathering, UV Light, Fungus & Micro-Organism growth
- Elongation is approximately 200% resulting in good crack bridging property
- Excellent water proofing property
- Provide excellent bonding & durability to the substrate
- Eco-friendly wall coating; - water based, low VOC & solvent free coating.
- Allows escaping water vapors from the structures & Impregnation property (Breathable)
- Fast Drying - comparable to many solvent based systems
- Excellent gloss retention property
- Available in a wide range of attractive colors with exact color matching& color retention property.
- Reduced tendency to dirt pick up and contamination

## Technical Properties

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VS-FLEXO- COAT	
Colour	As per recommendation
Finish	Semi-glossy to Eggshell
Application method	By brush, Roller or by spray gun
Surface dry time@ 30 c	15-20 minutes
Complete curing time	72 hrs.
Recommended DFT	200 microns
Recoat ability	8 hours
Coverage concrete	55-60 Sq. ft. / liter /coat
Nonvolatile content %by wt.	58%
Water absorption % by wt.	1 %
Elongation percent at break	200%
Carbon Dioxide Diffusion Coefficient: 965,000 Equivalent Air thickness	R: >200 m
Water vapor transmission rate	12g/Sq.m./day
Heat resistance at 165 c for 30 minutes	No blistering cracking or de-lamination observed
UV. & weather resistance ASTM G 23	No ageing withstand up to 3000 hrs. cycles i.e. about 10 years

Flexibility	Permanent flexibility no migration or leaching out of any ingredient on exterior exposure for longer period
Tensile strength at break (ASTM)D412	17 kg/cm <sup>2</sup>

## Direction for Use

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### Surface preparation:

Substrates shall be clean, sound, and free from contaminants such as oil, grease, moss, Algae, mold release oils and curing compounds, Dust and any existing loose or flaking Paintwork.(Jet water pressure machine is recommended for better surface preparation) To Eliminate algae and fungi use suitable fungicide wash

### REPAIRING

Substrate must be checked for its soundness using a small hammer. Repair unsound structural surface by PMM. & loose plaster with patching mortar allow it to cure 7 days minimum, surface should be treated with ANGH WR 100,

### PRIMING

Dilute VS-FLEXO-COAT up to 30% by volume with soft water, and apply by brush, roller or airless spray

### COATING

APPLY 2 coats of undiluted VS-FLEXO-COAT with an interval of minimum 6-8 hrs. It can be applied by brush, roller or spray

## Precaution

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- ✓ Concrete surfaces should be fully cured
- ✓ For Anti-carbonation property minimum 200 micron dry film thickness is necessary
- ✓ Apply primer on dry surface (Not immediately after cleaning minimum 24 hour gap is recommended)
- ✓ For good crack bridging property high DFT is to be applied e.g. For 1 mm thick crack bridging property minimum 450-500 micron thickness is to be applied
- ✓ Do not apply during rains or extreme temperatures.

## Storage

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Store cool and dry in closed container, Shelf-life is 12 months from date of production when stored at or below 40°C in the original unopened container.

## Packaging

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Available in, 20L packs.

## Safety & Handling

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As with all chemical products, care should be taken during use and storage to avoid contact with eyes, no special protection required while handling.

### Note

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