

# WAFSHIELD IB645

## Façade Safe Coating – Weather & Fire protection

WAFSHIELD. IB645 is a fluid applied, flexible air barrier coating formulated with elastomeric resin which forms a membrane that expands and contracts. WAFSHIELD.IB645 specifically formulated and designed to apply over all types of substrates from concrete , precast concrete, various type of concrete blocks, cement board, stones, metal , plastering and wood as a waterproofing, air, moisture, fire barrier and UV resistant protection. It will not crack, crumble, or peel despite exposure to severe weather or total joint movement and retains its elasticity at very low temperatures and in extreme of heat, protecting from water and aggressive atmospheric chemicals.

### Features

- Completely seamless protective membrane
- High performance waterproofing. Excellent Moisture, Air and Ignition barrier
- Energy Star rated product which saves Energy
- Optimum UV resistant, Abrasion resistant & Protects corrosion
- Good resistance to alkalis, salt solutions and diluted acids
- Non-Hazardous Composition and Non combustible
- Free of fibres and asbestos
- Low VOC, non-toxic and environmentally compliant
- Fire retardant (ASTM E 84 Class 1 & EN 13501 Class A)
- Thermal resistant, Resistant to movement and continuous contact with moisture
- Non toxic and high impact on building longevity
- Façade fire protection, Watertight, Vapour barrier and wind tight
- Water based and Non – flammable.

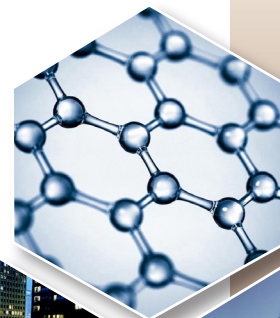
### APPLICATION FIELD

Facades, Roof, Curtain walls, Terrace to act as a complete barrier against air, water, vapor, fire and UV. Provides Moisture protection behind wall claddings of ACP, brick, Insulation systems, various other external façade finishing Typical application projects with maximum fire resistance requirements. Envelope for high rise and rise residential, commercial and institutional towers, buildings and complexes

### Properties

Property	Value	Test Method
Solids by weight:	>65%	ASTM D 1259
Hardness:	≥ 60 Shore A	ASTM D-2240
Tensile Strength	≥ 4N/mm <sup>2</sup>	ASTM D-412
Elongation:	1000%	ASTM D-412
Pull of strength	≥ 2N/mm <sup>2</sup>	ASTM D 4541
Flash Point:	None	
Low -Temp flexibility	-20°C	ASTM D 1970
Water Vapour Transmission	≤1.0 perms	ASTM E 96
Water permeability	Nil	BS EN 12390
Air permeability	≤ 2 ng/Pa x s x m <sup>2</sup>	ASTM E 2178
VOC	≤ 50 g/l	ASTM D 3960/2369
Application temp	5°C - 50°C @Less than 85% relative humidity	
Coverage:	1 Kg yields 2 sq.m area for one coat	
Dry Time:	Dry to touch in 4 - 6 hours, 12 - 24 hours full cure	
Shelf Life:	12 months	

All values given are subject to ±5-10% tolerances



engineered to perform

## Installation

### (a) Surface Preparation

Surfaces to be coated must be clean, dry and free of any oil, grease or dirt. Patch and repair cracks, blisters and other problem areas using suitable materials recommended by OBS technical support. Any existing coating must be checked for good adhesion. The loose existing coatings should be removed well. Clean by wire brush and use pressured air to blow out all the dust.

### (b) Application

Tools or equipments to be used for the application

1. Roller (Short nap roller)
2. Brush (Good quality synthetic bristle brush)
3. Spray (Airless Sprayer, 1gpm, 3,000 psi, .027 or .031 tip)

### (c) Mixing

Mix with a paddle and drill at low speed for 3 minutes for optimum consistency.

### (d) Coating Application

All roof-preparation materials must be allowed to dry prior to application of the WAFSHIELD. IB645 coating. Immediately prior to application of the coating, all dust, dirt and other contaminants should be blown off the roof surfaces using compressed air. Apply the elastomeric coating by brush, roller or airless spray, using a multi pass technique to ensure even coating application to all sides of the substrate. Make a conscious effort to apply coating into crimped or pre-sealed vertical (side-lap) seams that have not been detailed. According to project specification and requirements, apply the second coat of WAFSHIELD. IB645 using a cross hatch technique.

**PACKING:** 20 Kg

**STORAGE:** Store materials between 10°C-50°C with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures in direct sunlight. Shelf life under normal conditions in closed container will be 24 months.

**WARRANTY** On preapproved, qualified applications, when you use an approved applicator, a 25-year warranty is available. Contact us for complete warranty information.

**HEALTH AND SAFETY** Keep out of reach of children. Ensure to maintain good ventilation during application and drying process. In case of skin contact, wash with soap and water or a recognized skin cleaner. Avoid contact with eyes. In case of contact with eyes rinse immediately with running water and seek medical advice. If product is ingested drink plenty of water or milk. Do not induce vomiting at any time. Seek medical advice. Refer to the Material Safety Data Sheet (MSDS) for detailed information about the product and transportation and classification criteria.

