SAINT-GOBAIN

PRODUCT DATA SHEET

webertec EVA

Ethylene Vinyl Acetate Liquid Admixture for use with cement as a concrete surface enhancer for plastering and screeding purposes

PRODUCT

webertec EVA is a high-performance ethylene vinyl acetate liquid admixture formulated to mix with Ordinary Portland Cement (OPC) as a concrete surface modifier, which promotes adhesion of renders, plasters and floor screeds to building surfaces. The polymer does not contain an aromatic group, thereby preventing sunlight and heat breakdown. The **webertec EVA** is highly suitable for exterior use. It can be used to enhance the adhesion strength of cement sand mortar and spatterdash.

Uses

- Mix with cement as a concrete surface modifier to promote the adhesion of renders, plasters and floor screeds
- As a protective slurry coat for steel reinforcement
- Enhance the adhesion strength of mortar and spatterdash

Features and Benefits

- As a surface modifier to enhance the adhesion of render and screed
- Improve the cohesion strength of the mortar
- Excellent bonding to concrete, masonry and panel walls
- Chloride free

TECHNICAL DATA

Appearance	White emulsion
Component	Ethylene Vinyl Acetate
Specific Gravity	1.02 g/cm^3
pH Value	Approx. 4 – 5
Minimum application temperature	5°C
Solid Content	~ 40%

MIX DESIGN

	Bond Coat Slurry / Steel Protection Slurry	Spatterdash
webertec EVA	50 kg	10 kg
Cement	50 kg	50 kg
Sand	-	100 kg
Water*	-	30 kg
Consumption of **webertec EVA** (L/m^2)	0.17 – 0.2 L/m^2	0.06 – 0.12 L/m^2**
Coverage (m^2/L)	5 – 6 m^2/L	7 – 17 m^2/L

* Adjustment of water demand is necessary for different moisture contents and qualities of sand.
** Spatterdash consumption is highly dependent on the application, skills and spreading patterns.

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PHYSICAL PROPERTIES

Test Characteristics	Test Methods	Results	
		Bond coat slurry	**Spatterdash**
Adhesion to concrete	HKHA/MTS Spec., Part D, Cl. 2.1.15	≥ 2.0 N/mm^2	≥ 2.5 N/mm^2
Compressive strength	HKHA MTS Spec. Part D Cl. 2.1.1 and BS 6319: Part 2	N/A	≥ 40.0 N/mm^2
Flexural strength	HKHA MTS Spec. Part D Cl. 2.1.2 and BS 6319: Part 3	N/A	≥ 6.0 N/mm^2
Solids Content	BS 5270: Part 1 Appendix A	41.7 %	
Acid Value	BS 5270: Part 1 Appendix C	1 mg KOH/g film	
Ash Residue	BS 5270: Part 1 Appendix D	0.1 %	
VOC content	ASTM D3960	15 g/L	

Unless specified, all technical data are average values and refer to 28-day curing time.

The above physical data are taken from laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond the manufacturer's control.

Complied Standards

Hong Kong Standard	:	HKHA MTS Spec. Part D, Cl. 2.1.1, 2.1.2, 2.1.15
British Standard	:	BS 6319, BS 5270
ASTM standard	:	D3960

PROCEDURE

Substrate Preparations

The concrete substrate should be clean, structurally sound, adequately true and level to achieve specified tolerances, free from contamination, loose particles and any foreign materials which may affect the material's bonding to the substrate.

Before application, dampen the concrete surface with clean water and allow excess water to drain away.

Installation of Bond Coat Slurry

Prepare the bond coat slurry by mixing **webertec EVA** with Ordinary Portland Cement (OPC) at a ratio of 1:1 (by weight). Stir the mixture thoroughly by using an electrical mixer until a grey homogeneous slurry is obtained.

For the installation of bond coat slurry, a layer of slurry coat can be applied by brushing on the concrete surface. Subsequent installation of mortar should be applied on a wet and sticky slurry coat.

For steel reinforcement protection against corrosion, a layer of bond coat slurry should be applied by brushing on the exposed steel surface and allowed to dry. A fresh coat of bond coat slurry should be applied again before the subsequent installation of mortar.

When the bond coat slurry turns dry, apply another fresh layer. Do not apply mortar to dried bond coat slurry.

Installation of Spatterdash

Prepare the spatterdash by mixing **webertec EVA** with OPC, sand and water at a ratio of 1:5:10:3* (by weight). Stir the mixture thoroughly by using an electrical mixer until a homogeneous slurry is obtained.

Spatterdash can be achieved by simply spreading on a concrete substrate dampened with water.

Please refer to our method statement for procedures in detail.

Curing

Water curing is necessary for spatterdash on the first 2 days.

STORAGE AND PACKING

webertec EVA is delivered in a 20 L drum. Storage life is 12 months if the product is kept in a dry place. Prevent storage under extreme conditions. Stir before use.

HEALTH AND SAFETY

Recommend wearing a NIOSH-approved or equivalent particulate face mask when mixing the material.

The material contains cement, which may produce an allergic reaction.

Material may cause irritation to the eyes and skin. In case of contact with the eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Keep out of reach of children.

Please refer to the Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

CLEANING & DISPOSAL OF WASTE

Cured material can be removed mechanically; if uncured, material can be removed with water. Dispose of waste in accordance with legislation.

* Note: The information and physical data in this catalogue are given to the best of our knowledge under standard testing methods and a controlled environment. The results may vary with different weather/site conditions, workmanship or substrates. This is beyond our control, and we shall not be liable for any faults or consequences arising from or associated with this. We suggest that comprehensive tests be conducted before the final application. Unless specified, all technical data are average values with a curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.