Ultraflash

Fibre Reinforced Membrane

[Technical Bulletin]

A Low Odour, Fibre Reinforced , Acrylic Waterproofing Membrane with excellent elasticity, recovery and tensile strength.

PRODUCT TYPE;
Modified Acrylic Co-polymer

DESCRIPTION;
Ultraflash is a single component, low gloss, fibre reinforced waterproof membrane that has outstanding elongation, elastic recovery and tensile strength.

The product is a liquid compound with a paste like consistency that is manufactured as a resin rich material with minimal pigment content. The compound contains polyester micro fibres that add tensile strength to the cure membrane. These fibres negate the need for the traditional possess of using a polyester reinforcing matt during waterproof membrane application.

Ultraflash is designed as a first coat detailing material for Astec waterproofing systems. The product can be applied at an extremely high film thickness up to 25mm in one application without itself cracking or wrinkling during the drying process and through cures to provide a tough elastic film with high tensile strength.

The combination of properties provided by Ultraflash make it ideal for use as a start point detailing membrane for waterproofing systems. The product can be used for elastic coving applications on concrete an ply decks at floor to wall joints and for such applications as covering leaking fasteners on metal and asbestos roofing. In addition, for the entire lining of degraded box gutters or for the sealing of leaking penetrations on pitched or flat deck roofing.

Ultraflash is a low odour formulation and contains no harmful solvents making it environmentally friendly and safe for applicators during application.

Ultraflash is manufactured from soft modified acrylic co-polymers which have proven during many years of service in the restoration and waterproofing industries to offer outstanding adhesion, water resistance and durability. The use of this material for detailing as part of a waterproofing systems will exhibit, apart from its strong bond to the substrate, extremely good intercoat adhesion.

The products film surface is tacky during the curing process, therefore, when topcoats are applied to it a strong inter-coat bond develops. This bond ensures freedom from inter-coat delamination.

Ultraflash is a high build, high volume solids base coat membrane that can be applied on most correctly prepared construction surfaces such as concrete and timber ply decks or suitably primed metal. The high volume solids allows thick wet films to be applied without excessive wet to dry shrinkage. In addition, provides fast cure and early resistance to ponded water.

PROPERTIES;
Ultraflash has outstanding elongation and elastic recovery that will remain over long periods of time. The product is designed on internally plasticized acrylic technology, which means, it does not contain plasticizers that can leach from the film over time and detract from the products elastic performance.

Ultraflash has excellent low temperature set, (2 deg C), this fast drying makes year round application easier and more effective for applicators. **Ultraflash** is non toxic, non flammable and when it is used as part of an Astec waterproofing system forms a monolithic cladding for roofs and walls.

KEY PROPERTIES

- Extremely high film build, 25 mm are possible
- Excellent crack bridging properties
- High tensile strength
- Excellent resistance to ponded water.
- Excellent elongation 450%.
- Plasticizer free, (internally plasticized).
- Outstanding elastic recovery.
- Low temperate flexibility to – 3ºC.
- Will form films at temperatures as low as 8ºC.
- High volume solids.
- Low odour and environmentally safe.
- Rapid cure and bond strength.
- Excellent resistance to alkali and efflorescence.

PRINCIPAL USE;

Base coat waterproof membrane for detailing of;

- Coving of wall to floor joints
- Roof penetration sealing.
- Roof fastener sealing
- Box gutter lining
- Concrete deck roof crack detailing.
- Ply deck joint sealing.

SUBSTRATE;

Correctly prepared new and aged concrete, metal and asbestos. Existing membranes, timber ply and cement sheet.

COLOUR RANGE;

Grey

PREPARATION;

All surfaces must be clean, dry, free from surface contaminants and structurally sound. Surface preparation may be carried out by the use of high pressure water cleaning, power buffing or scraping. Mould and fungus infested walls should have sodium hypochlorite applied to the substrate prior to pressure washing. This process will kill any moulds and assist in their removal. Any structural cracks should be saw cut and struck smooth with a cementitious or low shrink grouting compound. With the surface clean and structurally sound, apply two coats of Astec Barrier and allow to dry prior to the application of any top coats or sealers. Astec Barrier will retard any under film mould spoilage.

Contact Astec for the correct preparation technique, sealers and or primers when applying the product over existing membranes or friable or new concrete surfaces.

MIXING;

- Thoroughly mix before use with a Paint Wacker or drill mixer.

APPLICATION;

Apply straight from the drum by brush, squeegee or texture spray equipment. Apply in multiple coats to a coverage of no more than 0.5 m² per ltr For spray applications use a 4 to 8 mm round texture nozzle. For squeegee applications use a Magic Trowel.

The product should be well mixed before use and applied straight from the drum without the addition of water. The addition of water to thin the product will result in an increased potential for mud cracks when applied at high wet film thickness.

PRECAUTIONS FOR USE;

Avoid contact with skin and eyes. Always use a respirator during spray applications.

LIMITATIONS

ULTRAFLASH is a water based material, therefore, should not be applied during inclement weather or when precipitation or freezing are imminent.

PACKAGING

20 ltr open top pail

PERFORMANCE DATA		
PROPERTY	**TEST METHOD**	**MEASURED RESULT**
Moisture vapour transmission rate. @ 25ºC, g/m²/hour	ASTM E96	1.2
Elongation @ 25ºC, at break, %	ASTM D412-1992	450
Tensile strength @ 25ºC, MPa	ASTM D412-1992	1.2
Water ponding resistance mg passed (50 hours)	(1)	46.4
Stability, heat aged, 10 days @ 60ºC	(1)	Pass
Water swelling @ 25ºC, maximum, %	ASTM D471	46

(1) Internal Astec laboratory test procedure.

PRODUCT DATA;	
Gloss level	Low sheen
Drying Time at 25°C @ 300 MIC W.F.T.	1 Hour
Recommended thinners	DO NOT THIN
Wash up	Water
Recoat time at 25°C	1 to 2 hrs
Theoretical spread rate at D.F.T (1000 microns Dry)	1m² per ltr

Theoretical spread rate at recommended minimum D.F.T. of 2000 microns dry	0.5 m² per ltr
TG deg C	-6
Specific gravity	1.124
Volume Solids	62.45% V/V
P.V.C.	15.18% V/V

WARRANTY

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