

INTRODUCTION:

SUPER FLEX[®]-PLUS is water based polyurethane coating for waterproofing & weatherproofing exterior and interior surfaces, with an advanced polymer technology. Being single component, it is brush or roller applied waterproofing membrane giving highly durable performance. Unique properties of **SUPER FLEX[®]-PLUS** makes it unique product for new and old building construction.

Unique Features:

- Superior Flexibility, Hardness and Solvent Resistance
- Bridges substrate crack up to 2mm
- Long term crack resistance
- Superior freeze/thaw resistance
- Self curing
- Very low shrinkage
- Non-toxic, and environmental friendly product
- Easy application, single component, hence no mixing problems.
- Designed with anti-fungus and anti-algae properties

USES:

Product is primarily designed to waterproof and damp-proof exposed concrete roof, terrace gardens, podium where 'No' leakage is allowed. Product can also be used for concrete wall, cement rendering, brickwork and blockwork. It also protect concrete against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis (e.g. Flyovers, bridges etc.). **SUPER FLEX[®]-PLUS** is best suited for surface area where anti-dart pick property is necessary.

ADVANTAGES:

SIMPLE PACKAGE: Material is pre-packaged in a convenient and easy to handle size. Requires no site mixing.

EASY TO USE: Brush or spray applied, normally in two coats (minimum).

ADHESIVE: Excellent adhesion to steel and sound prepared concrete substrates when used with primers.

SAFE: Non-toxic when cured.

IMPERMEABLE: Very high resistance to water permeability and diffusion to carbon dioxide gas.

COST EFFECT: Highly durable hence economical.

OVERCOATING: Easily overcoated with other specialist membranes in the Multichem range to provide further protection and aesthetic quality.

TECHNICAL DATA:

Nature	ASTM Method	Results	ASTM 6083 Requirements
Colour	Not Applicable	White / Ivory	Not Applicable
Surface dry time at 30°C (exterior)	Not applicable	12 hours	Not applicable
Elongation at 22.7 °C, %	D412	400	100 min
Tensile Strength at 22.7°C, Psi (N/mm ²)	D412	320 (2.2)	200 min
Water Swelling (0.490 mm film, 22.7°C, 168 hrs) %	D471	10	20 max
Wet Adhesion (galvanized, 168 hrs, 22.7°C) pli	C794/D903	4.5	2 min
Fungi Resistance	D4798	0	0
Low Temp Flex	D522	Pass	Pass
Appearance (1000 hrs accel weathering)	D4798	Pass	No cracking or Calking
Recommended Coats	Not applicable	2 to 3 coats depending upon the substrate	Not applicable
Coverage	Not applicable	1.3-2.2kg/m ² (0.6-1mm thk)	Not applicable
Packing	Not applicable	5kg, 20 kg	Not applicable

APPLICATION DATA:

PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed and steel cleaned to bright metal preferably using wet grit or water blasting techniques or equivalent approved methods. The concrete/plaster surface should be at least 28 days old or fully cured.

PRIMING & LEVELLING

The prepared substrate concrete should be thoroughly soaked (preferably 24 hours before) with clean water until uniformly saturated without any standing water. Highly porous substrates require sealing with **Multithane Primer 21**. Level the surface with **Microtop/ OverlayCrete/ Surfex Level-coat/ PrimeMix RM** substrate leveling coat, before applying Primer. Most suited primers are **Multithane Primer 21** and **Aquablock Primer**. Refer respective datasheets for more details.

PLACING

SUPERFLEX®-PLUS can be applied by brush or roller or using spray techniques. However, while using brush care must be taken to ensure that air is not entrapped onto the surface. For Roof, apply the first coat, approximately 300 microns thick, onto the prepared substrate or over **Superflex Plus Basecoat**, supplied as Ivory colour followed by **Superflex Plus Topcoat** in white or different colours as a part of **Superflex Total Protection**. To ensure total protection, a second coat should be applied in the same way, after waiting approximately 1 hour depending on temperature (when the first coat is stable but not fully set) or not later than 24 hours.

CLEANING

All tools should be cleaned with water immediately after use.

STORAGE:

Store in dry, frost-free conditions at moderate temperature not **greater** than 25 °C.

IMPORTANT POINTS:

1. Apply only to clean, sound substrates. Concrete should be saturated but surface-dry and free of water backpressure.
2. Care should be taken when curing in hot, sunny or windy conditions.
3. Discard **SUPERFLEX®-PLUS** packages which have been subjected to freezing temperatures.
4. Dilution is not allowed. Consult our technical team for advise.

PRODUCTS USED WITH SUPERFLEX®-PLUS:

1. Concrete Repair: **PrimeMix RM** with **Multicrete CM+** cement as primer.
2. Leveling Coat: **Microtop** for 2-3 mm thickness, **Surfix Level-Coat** for 3-6mm thickness, **PrimeMix RM** for more than 6mm thickness.
3. Primers for Superflex Plus: **Multithane Primer 21**, **Aquablock Primer**
4. Fibercloths for cracks: **Fibrecon G55**
5. Angle Fillet: **Deckcoat Mortar Reglet**

SAFETY DATA:

- Irritating to eyes, respiratory systems and skin.
- Risk of serious damage to eyes.
- Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- After contact with skin, wash immediately with plenty of clean water.
- Wear suitable protective clothing, gloves and eye/face protection.

Please consult our technical department for further information.

WARRANTY

Multichem warrants **Superflex®-PLUS** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **Superflex®-PLUS**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **Superflex®-PLUS**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.