



DATASHEET



UltraPrime

Triple Effect Primer, Waterproofer and Paint

INTRODUCTION:

RainShield™ UltraPrime is a latest innovative product based on advanced resin technology. **UltraPrime** is developed as a multifunctional coat, with application as primer, waterproofer and topcoat. As a topcoat, it can be tinted with any pigment paste to get unlimited choice of colours. Highest quality resins are combined with white inorganic pigments, fillers and an effective biocide packages resulting in superior durability, weatherproofing, ultraviolet resistance, algae/mildew resistance and fire retardancy.

Unique Features:

- Superior flexibility, hardness and solvent resistance.
- Long term crack resistance and stabilization of minor cracks and porosity.
- Superior freeze/thaw resistance.
- Non-toxic and environmental friendly product.
- Unique anti-fungus and anti-algae properties
- Superior exterior durability and UV light resistance.
- High temperature stability.
- Dirt pick-up resistance.
- Excellent adhesion and sealing properties to many other substrates.
- Easy application by spray, brush, or roller-thus lowering application costs.
- Low toxicity and odor.
- Simple water cleanup for applicators.

USES:

Primer:

RainShield™ UltraPrime is used for priming of substrate before topcoats thus filling all minute cracks and porosity.





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Waterproofer:

If used alone, it waterproofs concrete, cement rendering, brickwork and blockwork with elastomeric properties. Because of elastomeric properties, it does not allow water to go in inspite of crack formation in the wall.

Paint:

UltraPrime is developed to be used as top coat with suitable dilution with water and tinting with pigment paste. All pastel colours are possible to get fine finish.

ADVANTAGES:

- SIMPLE PACKAGE:** Material is pre-packaged in a convenient and easy to handle sizes.
- EASY TO USE:** Brush, roller or spray applied.
- ADHESIVE:** Excellent adhesion to sound prepared concrete and steel substrates.
- SAFE:** Non-toxic when cured.
- IMPERMEABLE:** Very high resistance to water permeability and diffusion to carbon dioxide gas.
- OVERCOATING:** Easily over coated with other specialist membranes in the Multichem range to provide further protection and aesthetic quality.

TYPICAL CHARACTERISTICS:

Nature	Single Component Water Thinnable Material
Colour	White
Application time at 30°C	3 to 4 hours
Surface dry time at 30°C	20 to 30 minutes
Hard dry time at 30°C	8 to 10 hours
Complete curing time at 30°C	3 days
Recoat ability time at 30°C	4 to 5 hours
Finish	Smooth and matt
Dry film thickness	50 µm in smooth surface)





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Coverage	Primer: 180-200 ft ² /lit/coat (with 70% dilution by volume) Waterproofer: 65 ft ² /lit/coat (no dilution) Paint: 80-100 ft ² /lit/coat (with 30% dilution by volume) (as per roughness or porosity of surface)
Density	1.30-1.50 kg/lit
Water dilution	1:1 dilution with water is required.
Packing	1lit, 4lit, 20lit

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.

Crack Repair, Leveling & Priming

The prepared substrate concrete should be thoroughly soaked (preferably 24 hours before) with clean water until uniformly saturated without any standing water.

Surface with cracks should be opened to approximately 2-4mm width and double the depth. Apply **Multiflex AC** (for surface more prone to cracking) or **CrackFix** crack repairing products. Refer separate datasheets for individual products.

Level the surface with **Surfix Level-Coat** wall finishing coat.

Apply primer coat in two passes in the interval of 1 hour by diluting **UltraPrime** 70% by clean water and mixing the same.

Placing





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RainShield™ UltraPrime can be applied using roller, brush or spray techniques. Although care must be taken to ensure that air is not entrapped onto the surface.

Waterproofing Coat:

Apply the first coat, approximately 50 microns thick, onto the prepared substrate without dilution. 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).

Top Coat as Paint:

Dilute the material upto 40% by volume with clean water and mix the content until homogeneous paint is obtained. Tint the mix with pigment paste (UV stable for exterior application) to get desired shade. Apply the material in two coat in the interval of 1hour or when first coat is stable but not fully set.

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 a **RainShield™ UltraPrime** package which has been subjected to freezing temperatures.

SAFETY DATA:

- Irritating to eyes, respiratory systems and skin.





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- 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 **RainShield™ UltraPrime** 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 **RainShield™ UltraPrime**.

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 **RainShield™ UltraPrime**.

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MULTICHEM GROUP | 2, Matoshree Kunj, M.D. Kini Marg, Bhandup (E), Mumbai-400042,
 Phone No.: 91-22-25669137, 25664890, e-mail: info@multichemgroup.net
www.rainshield.in, multichemgroup.net

RainShield UltraPrime/2015/R2-2015

