

MixPRIME® AC100

Multi surface cement modified bonding primer / sealer

MixPRIME® AC100 is a multi-surface ordinary Portland cement modified penetrative bonding primer / sealer engineered for use over variety of substrates where proper bonding is required for applying high build water proofing membranes. The product is designed with liquid high solid aqueous polymers, wetting and dispersing agents, Ideal primer to improve adhesion between the substrate and subsequent coats – equally compatible for both porous and non-porous

MixPRIME® AC100 is recommended to use after modified with cement as a slurry coat will result as a blow hole filler to fill the porosity of the concrete / masonry and HP clay tiles and penetrate to seal micro cracks in substrates

Appropriation

As a base primer / sealer coat for;

MixGUARD® HR5 / HR5T / HR3 / HR2 / Combo systems

MixGUARD® AC system

Characteristics

- Easy to apply
- Improves adhesion between the substrate and over coat
- Improves the finish of topcoat
- Non-toxic
- Applicable for both new and old surfaces
- Reasonably good UV stability

Technical data& specification

Standards	MixPRIME® AC100 Compound	Modified slurry
Composition	Aqueous dispersion of Acrylate Co-Polymer	with OP cement at 2:1:3
Form	White semi viscous liquid	
Standard conforms to	ASTM D7733-12 (2016)	
Solid content	49 ± 2%	75 ± 2%
Viscosity	Spindle 6/100rpm = 1800-2500mpaS	25000 to 26000
pH	7-8	7 - 10
Density	1.03 ± 0.02 g/cm ³	1.25 ± 2%
Dispersion type	anionic	
Pigment binding capacity	very high	Not applicable
Mean particles size	ca 0.1 microns	
Water absorption after 24 hrs.	<4%	>4%
Adhesion to substrate ASTM D 4541	>1.5N/mm ²	>1.5N/mm ²
Elongation at break	400% at 2mm thick	300%
DFT in Normal surfaces (Average) in microns		500 to 600
Touch dry	3 hrs. at 25°C	2 hrs. at 25°C
Over-coatable at 25°C	Minimum 4 hours	2 to4 hours
Temperature Condition	Ambient temperature shall be 10 to 50°C	

Product Management

Surface preparation: Good surface preparation practice is a key element to achieve optimum result, life and performance of any liquid base primer applications. Concrete and masonry substrates shall be at least



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28 days old with minimum 7 days standard concrete curing practice and the moisture content less than 5%. The surface should be dry and free of dust, dirt, oil, grease, loose mortars, curing compounds, form release agents, any defects, sharp arises etc. for the optimum performance of the base coating. This can be achieved by wire brushing, grit blasting etc. High pressure water jetting is suitable to remove the lose particles, dirt's and funguses. Any existing materials such as Bitumen and cementitious membranes must be removed by mechanical scarification or by any other mechanical way. Cold Bitumen primed surfaces which is not possible to remove must be applied with MixCOAT® AP600 / MixCOAT® SB300 (penetrating bonding coat for obtaining bonding between base surface with PU or Bitumen stains which remain even after cleaning) prior to the application of MixPRIME® AC100 slurry

In existing old terraces with Brick-bat-coba or cement screeds, the substrate must be thoroughly checked for its micro / hair line cracks for its soundness

Surface cracks must be mechanically widened and filled with MixBUILD® GP / MixFLEX® AC and Hollow or damaged portions, sharp edges and wide cracks must be cut and repaired with MixBUILD® SR – Polymer modified repair mortar

The surface with existing HP clay tiles shall be thoroughly checked for its soundness; tiles shall be firmly bedded and grouted with polymer mortar. The surface must be thoroughly clean with high pressure water jetting to remove the dirt and funguses accumulated over it

Slurry preparation / Mixing:

As a base slurry coat for high build water proofing system, it is recommended to prepare the slurry compound at the ratio of 2:1:3 (MixPRIME® AC100: water: OP cement) by volume with a slow speed mixer with paddle to obtain a brushable slurry consistency. Keep mixing in between coating to avoid material settlement
Contact FAB technical dept. for various mix designs based on system and nature of substrate

Application

MixPRIME® AC100 cement modified slurry mix is applied by brush or roller at 1.000 L/Sqm (MixPRIME® AC100 content is 0.350L/Sqm) along with Fiber mesh and 0.750L/Sqm (MixPRIME® AC100 content is 0.250L/Sqm) in general applications depending on substrate porosity and allowed to cure for 2 to 4 hours at 25°C before over-coating

Curing : MixPRIME® AC100 slurry is self-curing.

Cleaning: Clean the tools with water immediately after use

Packing & Storage

MixPRIME® AC100 liquid is available in 20ltr, 10Ltr and 5ltr pail and it shall be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per manufacturer's recommendations. In extreme tropical climate, the product shall be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

MixPRIME® AC100 does not contain hazardous substances. As with all construction chemical products, caution shall always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety.



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Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact to skin or eyes with fresh water immediately. Should material be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For details, please refer to the MSDS released on each Fab product

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The Construction Chemist...



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Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hands- onapplication. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc... and porosity of substrate may impinge on the values.

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