



*The Ultimate Protective Solution*

# SP CONPRIME 74

## TECHNICAL DATA

A two pack high solid, Epoxy-polyamide primer for concrete, ceramic & stone floorings.

### **INTENDED USES**

This primer has good penetrating & sealing properties with excellent bonding with concrete & wooden substrates also has good intercoat adhesion with subsequent middle coats or topcoats. For excellent protection against heavy impact, high strength, heavy duty flooring with hygienic floor, easy to clean, hard wearing floor coating systems.

### **PHYSICAL PROPERTIES**

Colour	: Clear
Finish	: Smooth & glossy
% Solids by Volume	: 80 ± 5 %
Mixing ratio (Base : Hardner)	: 2:1 by weight
Consumption	: 150 grams per Sq Mtr
Maturation time	: Allow the mixed material for 2-3 minutes before use.
Recommended D.F.T.	: 125 to 200 microns per coat
Drying time @ 30°C & at recommended D.F.T.	: a) Surface Dry : 4 hr. b) Hard dry : 16 hrs. c) Complete Cure: 7 days (for chemical testing)
Overcoating interval	: minimum 8 hrs & maximum 48 @ 30°C
Pot Life	: 30-40 minutes @ 30°C
Shelf life	: 12 months (Individual sealed components under normal storage condition)
Application method	: By woolen roller
Bond Strength (ASTM D 4541)	: Not less than 2.5 MPa (Concrete Failure)
Compatibility	: Compatible with Epoxy / Polyurethane undercoats or topcoats.

**Concrete requirements :**

Concrete substrates must be sound and of sufficient compressive strength (minimum 20 Mpa) with a minimum tensile strength of 1.5 Mpa

- A sound, clean and dry substrate is absolutely essential for successful coating application and ensuring maximum bonding between the substrate and coating system
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. and have a moisture content less than 4% prior to application of the primer. Ensure that the substrate does not suffer from rising moisture and potential osmosis problems

**New concrete floors:**

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy primer application. Laitance and deposits on new concrete floors are preferably removed by light grit/ shot blasting, mechanical scarifying or grinding to achieve an open textured surface.

**Old concrete floors:**

- Determine the general condition, soundness, presence of contaminants, presence of moisture vapour emissions and the best methods to prepare the surface to receive floor coating system. Mechanical surface profiling by grit or shot blasting, grinding or scarifying are the preferred floor preparation methods on old concrete floors
- Hydrophobic contaminants can be identified by a simple water drop test. Other contaminants can be identified by pH.
- Remove localized weak or deteriorated materials from the surface. Remove bond-inhibiting materials such as oils, grease, wax, fatty acids, and other contaminants. This can be accomplished by the use of detergent scrubbing, low pressure water cleaning (less than 5000 psi), steam cleaning, or chemical cleaning. Acids and alkalis can be removed by neutralizing to form a water soluble salt and then high pressure water cleaning and mopping it off to dry state
- In the areas where the contaminants cannot be removed, complete removal and replacement of the contaminated surface is typically considered
- Surface defects such as voids, bug holes, excess porosity, and physical and chemical damage are usually filled or repaired prior to the installation of the floor coating system. Materials such as slurries, mortars, and polymer concrete are used to level, smooth and patch concrete surfaces. High spots must be removed by grinding Surface

**APPLICATION CONDITIONS :**

This product should preferably be applied at temperatures in excess of 10<sup>0</sup> C. Substrate temperature should be at least 5<sup>0</sup>C & above the dew point.

Application at ambient air temperatures below 5<sup>o</sup>c is not recommended. Do not apply when relative humidity rises above 90%. Do not apply during rain, fog or mist. Such conditions do not permit adhesion of coating with the substrate & delay in curing or loss of gloss.

**POT LIFE OF MIXED MATERIAL :**

At the time of mixing the material, if the temperature exceed of 35<sup>0</sup>C the pot life will be approximately halved. Use of this product outside of the pot life may result in inferior adhesion properties even if the material appears fit for application. Thinning the mixed material is strictly not recommended.

**DISCLAIMER :** The information in this data sheet is given to the best of our knowledge based on laboratory testing & practical experience. It is the user's responsibility to conduct all necessary trials & tests to confirm the suitability of any product or system to their intended use. Our all recommendations or suggestions whether in technical documentations in writing or verbal are given in good faith but without any type of warranty or liability on us. We have no control over either the quality or condition of the substrate, or the factors affecting the use & applications of the product. Therefore we do not accept any liability arising from loss, injury or damage resulting from such uses.



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