

## FUNDAMENTALS

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Prior to commencing installation, attentively study all available product(s) and system(s) information and carefully read and comprehend all applicable Safety Data Sheets (SDS). Do not commence installation until a thorough understanding of the product(s) and system(s) has been reached. Work site safety is priority, the use of Personal Protective Equipment (PPE) as outlined in the SDS must be worn and used at all times. Successful installations start from the ground up, therefore surface preparation is key to the longevity and performance of the final product. Do it right and do it once.

## SURFACE & SITE TESTING

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The following surface and work site testing should be carried out;

- ▶ **Moisture.** Concrete substrates must be tested for moisture. In-situ RH testing to the most recent revision of AS 1884-2012 or ASTM F2170 must be performed.
- ▶ **Atmospheric Conditions.** Check that atmospheric temperature and dew point are within products allowable limits. Consult Dew Point Calculator at [www.alluvius.com.au](http://www.alluvius.com.au) or see Alluvius Dew Point Calculation Chart.
- ▶ **Surface Temperature.** Determine if surface temperature is within product limitations.
- ▶ **Tensile Bond.** Test tensile bond strength of primer as per the latest revision of AS/NZS 1580.408.5 or ASTM C1583.
- ▶ **Surface Profile.** Putty replica may be visually compared to ICRI Concrete Surface Profile Samples, in accordance with ASTM D 7682- 10 Method A. Surface profile may also be measured using a specially designed micrometer to quantitatively ascertain the actual profile range of the sample according to ASTM D 7682 Test Method B.

Consult Alluvius Technical Bulletin - Standard Test Methods for further information.

## SURFACE PREPARATION

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The longevity and performance of this system is directly associated with surface preparation, improperly prepared surfaces will be prone to failure. The number one cause of system failures is inadequate bond/adhesion to the substrate. A thorough inspection and evaluation of the surface to be coated must be carried out. Two vital conditions must be met for successful adhesion to the host surface:

1. Substrate must be structurally sound and clear of any notable defects or irregularities.
2. The surface must be clean and free of any contaminants, curing agents, compounds or barriers that will interfere with adhesion.

Repair all cracks, pop outs, spalls, gouges and all other surface irregularities.

Consult Alluvius Technical Bulletin SP#1 for further details.

## MIXING STATION

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Setup a mixing station as close to the site of application as possible. Protect the floor from splashes and spills. Stage materials in succession of use but in such a way as to not mistake similarly packed material. Have all required tools, accessories, documents and materials readily available. Mixing station should be organised with sufficient room for operation.

Consult Alluvius Technical Bulletin - Mixing Of Multiple Component Polymeric Materials for further details.

## POLYMERIC MATERIAL SELECTION AND APPLICATION

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After the concrete is mechanically ground an Alluvius polymeric film building or substrate penetrating material may be applied.

Selection of a suitable Alluvius polymeric protective guard or coating is dependant on the required performance of the GRIND & SHINE™ system. Variables that will dictate the selection of this coat include site accessibility, environmental restraints and conditions, budget, ongoing maintenance cost, required performance parameters, aesthetics, project down time and turn around time.

**Economical:** Alluvius ACRYL-MITE™ is the most economical Alluvius coating system available. This coating is high in volatile organic compounds (VOC) and therefore should not be used in confined spaces where a positive and negative airflow exist. ACRYL-MITE™ should be applied in 2-3 coats. Recommended for exterior applications.

**Moderate:** Transparent EP-2020 applied in multiple coats will leave a higher build, high gloss, chemical and solvent resistant finish. Recommended for interior applications only. VOC free.

**Premium:** Transparent EP-2020 applied in multiple coats and then top coated with an Alluvius DEFENCE-TOP-COAT. Recommended for interior applications.

**Ultra:** PA-85 applied in multiple coats. First coat is thinned 10% with subsequent coatings used as packed. This system yields unrivalled UV resistance as well as extreme chemical and solvent resistance. Abrasion resistance is also exception.

**Application:** Consult each materials Technical Data Sheet for product usage and limitations.

## DISCLAIMER

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The information provided in this installation guide is given to the best of our knowledge based on laboratory testing and practical experience. This installation guide does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

All Alluvius Pty Ltd products are manufactured to controlled specifications and we can only guarantee the quality of the product itself. Since we have no control over the conditions under which these products are transported, stored or handled and cannot anticipate or control the conditions under which the products may be used, each user must, prior to usage, review the technical data sheet and safety data sheet in the context of how the user intends to handle and use the product and to thoroughly test them before adapting them to their own uses. We reserve the right to change the given data without notice.