

Airlay Ultra Crystal R10 PUR Homogeneous Sheet Vinyl Installation Instructions

Storage

Please follow code of practice BS8203: 2001 when laying Airlay Ultra Crystal Sheet Vinyl. Airlay Ultra Crystal Sheet Vinyl Flooring should be stored for 24 hours at room temperature of at least 14°C prior to installation. When laying, the area should be at a steady temperature of between 14°C to 27°C (this temperature should be maintained for at least 48 hours prior to installation, during installation and 24 hours after installation). Please ensure that material to be installed is from the same batch and consecutive roll numbers, and that it is laid in alternating direction. Flooring should be checked for defects, cut to size and loose laid for at least 2 hours before being adhered to the sub-floor.

The installer is responsible if the flooring is installed with obvious defects or on an unsuitable or poorly prepared subfloor. Installation should comply with Australian Standard AS1884:2021 & New Zealand Standard NZS/AS 1884:2021 for Floor Coverings – Resilient Sheet and Tiles – Installation Practices. Installation will require an assessment of the site and building conditions and appropriate judgement by the installer. If you are unsure about any aspect of the installation, please contact your relevant Account Manager or Airlay Customer Service

Sub-floor

Please ensure that the sub-floor conforms to BS8203: 2001, is smooth, dry and clean before proceeding with the installation. Concrete should be dry to a minimum of 75% using an in-situ moisture test AST F2170, as specified in Australian and NZ Standard, 1884:2021 . If the dampness exceeds 75%, a waterproof system is suggested before installation begins.

Adhesive

Please follow the adhesive manufacturer recommendations and check with your Airlay representative that the intended adhesive is suitable for the product. Note that inflammable adhesives require special storage conditions. Contact the adhesive manufacturer if required.

As a guide we can recommend the following products:

Ultra Crystal PUR – R10	Airlay Universal Vinyl Adhesive
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Installation

Airlay Ultra Crystal Sheet Vinyl can be self coved, straight laid or used in conjunction to “sit on” or “set in” skirtings. Joins in wet areas must be completely sealed to prevent moisture ingress (joins between the flooring and the walls, pipes, toilet pans etc.). Once the material has been conditioned it can be cut in and adhesive can be applied in accordance to the manufacturer’s instruction.

After the specified open time, place the floor covering back onto the adhesive taking care to push all air bubbles out. Excess adhesive should be removed straightaway using a damp cloth. Finally all joints can be cut in, grooved and welded.

Creating an internal mitre

1. Once laid and adhered, push the flooring into the internal angle as far as possible
2. Make a cut from the base out to the top of the flooring in line with the mitre
3. Fold in one side of the mitre and cut the excess material
4. Fold the second side and carefully cut in to complete the joint
5. Adhere and hot-weld the joint.

Creating an external mitre and internal mitre on a make out section

1. Roughly cut the flooring oversize to meet the required section
2. Once the main flooring is adhered, cut in the back and front mitres, then cut out the section to remove the make-out
3. Take a separate piece of flooring roughly cut to size, apply adhesive, position and cut to fit the back internal mitre
4. Cut the front external mitre
5. Finally groove and hot weld to complete the section.

Grooving

Ensure that all flooring sections are laid butted with no gap. Use an automatic or hand held grooving tool to cut a “U” shape 3mm groove on all flooring joints (except mitres). Ensure that the flooring is grooved to 2/3 of its thickness.

Hot welding joints

When possible allow 12 hours between the laying and welding. Weld all flooring to flooring joint using a welding rod and a welding gun fitted with the appropriate high speed nozzle. Allow the weld to cool down before trimming it with a half moon spatula.

Welding an internal mitre

1. Groove the lower section of the joint only
2. Trim the weld rod with a round router blade.

Welding an external mitre

1. Groove the floor and bottom section (the top section of the mitre forms a natural “Vee” and does not need grooving)
2. Start welding the mitre from the top, with the weld rod feed above the nozzle. When welding the floor feed the weld rod below the nozzle
3. Allow the weld rod to cool completely before trimming the surplus with a spatula
4. Chamfer off the external mitre with a square router blade.

Protection and maintenance

Airlay Ultra Crystal Sheet Vinyl should be covered and protected from all other trades using suitable non staining covering. Please refer to Airlay maintenance guide for cleaning recommendations. It is also recommended that the floor is buffed to activate the PUR before handover. Depending on the quality of the castor chairs and the hardness of the wheels, chair mats are recommended to protect the floor.

Installation tooling

All tools listed above are industry generic and widely available. Please contact your Airlay representative if you require the details of a local supplier.

AIRLAY & its distributors, resellers or representatives will not assume responsibility for any failure of material that is caused by any of the above or problems caused by incorrect installation or abuse or misuse of the material. When in doubt, please contact the supplier from where you purchased the product.