

### Scope;

This bulletin deals with the repairing of joint cracks and damaged area of floor/cove in allnex floor toppings.

### Note;

The topping will never just crack or break on its own accord, cracks will occur if there is movement in the concrete substrate, damage can also occur through excessive thermal shocking, chemical attack or high impact.

### Movement Joints

All substrate movement joints should be brought through the new topping, the flooring applicator should put a K130 epoxy or similarly designed sealant joint through the new topping wherever there is a control joint, construction joint or crack in the concrete.

There are a number of exhibited crack types:

- Single straight crack: usually following a control joint, or construction joint
- Jagged variable crack: a new crack has developed in the concrete substrate.
- Multiple crack lines (parallel): the concrete slabs on each side of a construction joint are moving horizontally but in opposite directions
- Cracks near an installed joint: the expansion / movement that occurred exceeds the capability of the joint.

### Note;

Ensure the reasons for failure are well understood and that there is agreement on the proposed repair method as some joints move so much that a successful repair may never be achieved and ongoing maintenance will be required.

There are various types of flexible joint sealant available, allnex utilise K130 epoxy however, extremely high movement joints may need a higher modulus of movement from the sealant, seek advice from allnex prior to installation if required.

### Preparation for repair:

Mark straight lines outside the boundaries of the cracked area.

These lines must be very carefully cut; straight and true. (The appearance of the repair will depend on this)

Remove the existing topping completely from the area between these lines.

Carefully grind the concrete substrate to expose the crack(s) or fault in the concrete.

Vacuum clean all dust and debris from the surface of the area to be filled.

### Installation:

Prime and apply to fill solid the concrete crack using allnex STZ prefill or similar.

Allow to cure

Prime the area with STZ primer, allow to become tacky,

Fiberglass the area with the appropriate resin and 600 gsm fibreglass chopped strand matt.

Allow to cure

### Repair Options;

- Options: 1. Install the new topping across the area.  
Once cured, immediately cut through the new topping into the substrate a joint mirroring the original design width along the line of the crack(s).  
Wait a minimum of 24hrs and then fill the gap with K130 flexible joint sealant.  
Use bond breakers as required,
- Option: 2. Install preformed brass joint units on either side of the crack.  
Install the new topping and then fill between the metal angles with K130.

- Option: 3. For wide jagged cracks,  
Install the new topping across the area.  
Once cured, immediately cut and install two K130 joints on either side of the cracked area (with or without metal angles)  
Use bond breakers as required,

**Note**

In all cases, consider the colour of joint sealant to be used, a contrast colour may be more appropriate than trying to match the existing.

**Floor And or Cove Repairs**

Ensure the reasons for failure are well understood and that there is agreement on the proposed repair method as it is impossible to disguise repairs, consider colours or contrasting colours is the knowledge that the repairs will be visible. Consider repairing floor areas to natural joint lines, surface breaks or doorways.

**Outline Method of Repair:**

- Identify and mark straight lines outside the boundaries of the affected area.
- Cut these lines with a diamond blade very carefully, cut straight and true. (The appearance of the repair will depend on this)
- Remove the effected floor topping, removal to extend +100mm at either end of the affected area.
- Mechanically abrade and prepare the substrate,
- Remove all dust and debris,
- Prime the substrate with the appropriate primer,  
Include wet-on-wet fibreglass laminate across the horizontal and vertical area whilst priming,
- Allow primer to become “tacky”
- Apply new topping into the wet adhesive primer coat, ensuring the new infill finishes flush with the existing surrounding area.
- Allow to harden,
- Clean, de-nib and topcoat the repair as required.
- Allow to cure before any cleaning process begins .

For further advice or information do not hesitate to contact the allnex technical team.

Free Ph: 0508 88 22 88  
E-mail: [cs.constructionnz@allnex.com](mailto:cs.constructionnz@allnex.com)  
Website: [www.allnexconstruction.com](http://www.allnexconstruction.com)

**Date: Aug 2019**  
**Replaces Sept 2015**

**Allnex Construction Products, a Division of Allnex New Zealand Ltd**  
Auckland - 14 Industry Road Penrose phone: 095836544. Hamilton - 18 Somerset Street Frankton phone: 07-847-8658  
Wellington - 19A Jamaica Drive Grenada North phone: 04-240-0305. Christchurch - 112 Carlyle Street Sydenham phone: 03-366-6802  
Customer Service: 0508-882-288 [cs.constructionnz@allnex.com](mailto:cs.constructionnz@allnex.com)  
[www.allnexconstruction.com](http://www.allnexconstruction.com)



**DISCLAIMER:** This information appearing in this Document (**Details**) concerning the product which is the subject of the Document (**Product**) is either based on present technical knowledge and tests done by allnex or tests done by, and data supplied from third parties including you, the customer. Since the actual use by you and by others of the Product is beyond the control of allnex, no warranty or representation, express or implied is made by allnex regarding the suitability for such use, nor does allnex accept any liability arising out of the use by you of other products or materials, whether third party or not, that may be referred to in this Document. allnex recommends that you carry out your own tests as to the suitability of the Product for your purpose, regarding which you accept full responsibility. In addition, if any of the Details appearing in the Document are based upon tests done by, and/or data supplied by any third party, allnex provides no warranties or representations in connection with those Details and you, the customer waives any right you may have against allnex in connection with the accuracy, completeness or otherwise of the Details. The information in this Document is not to be construed as absolutely complete or accurate since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations affecting use of the Product. allnex does not provide any warranty or representation to you that the Product does not infringe the intellectual property rights of any third party. All orders accepted shall be subject to the standard conditions of sale of allnex which are on the back of our invoice. In accepting the Product you, the customer acknowledge and agree: a.) The Product is or may be of a hazardous nature and that you, the customer, are responsible for the disposal of the container housing the Product in accordance with the requirements and regulations of the relevant supervising government. b.) The Product has a limited shelf life and must be stored strictly in accordance with the guidelines and specifications related to it. c.) Where the Details relate to Product tested by allnex, those Details are indicative only, regarding which there may be batch to batch variation. d.) allnex gives no warranty or representation as to the applicability for the particular use by you, the customer, of the Product and you the customer shall be responsible for ensuring that the Product is fit for your intended use. e.) allnex's liability for breach of any term, condition, guarantee or warranty (express or implied) and concerning the information in this Document or the Product more generally) including any liability for direct or indirect consequential loss (including indirect loss of profits), is limited to the maximum extent permitted by law and, at allnex's election, to either replacing or repairing the goods or paying the cost of replacing or repairing the goods, or in the case of services, supplying the services again.