

# Finishing Construction Work Level II

**Learning Guide-104** 

Unit of Competence: Prepare & apply grout,

Adhesive and sealant

Module Title: Preparing & applying grouting,

Adhesive and sealant

LG Code: EIS FCW2 M22 LO5-LG-104

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# LO 5: Apply primers and adhesives to tile substrate on site

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Instruction Sheet	Learning Guide 104

This learning guide is developed to provide you the necessary information regarding the following content coverage and topics:

- Applying Primers and adhesives.
- Applying Safety procedures

This guide will also assist you to attain the learning outcome stated in the cover page.

Specifically, upon completion of this Learning Guide, you will be able to:

- Apply Primers and adhesives in accordance with specifications.
- Observe Safety procedures specify for type of primer and adhesive.

### **Learning Instructions:**

- 1. Read the specific objectives of this Learning Guide.
- 2. Follow the instructions described below.
- 3. Read the information written in the information "Sheet
- 4. Accomplish the "Self-check.
- 5. If you earned a satisfactory evaluation from the "Self-check" proceed to "Operation Sheet.
- 6. Do the "LAP test" (if you are ready).

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Information Sheet-1	Applying Primers and adhesives

### 5.1 Applying Primers and adhesives

Primers usually mixed with cement or tile adhesive to form slurry which is applied with a black-brush to the surface. Some primers are applied directly and require a curing time before the adhesive screed or waterproofing compound can be applied. Refer to the instructions when applying a primer to ensure you are following the correct procedure.



Figur 1 Applying Primers and adhesives

Some substrates are porous or impervious, smooth or rough, or dusty and powdery. If you opt not to apply a primer, the substrate, if porous, could draw the liquid from the adhesive or screed mix; a dusty or powdery surface in turn, could prevent the adhesive or screed from bonding onto the surface and a smooth, impervious surface could be too smooth or dense for the adhesive or screed to form an adequate bond onto the substrate. When your surface is not prepared correctly, the integrity of your installation is compromised and may lead to installation failure. Using the correct primer will prevent this from occurring.

We have a range of primers with which to prepare the surface prior to the application of tiling adhesives, screeding and waterproofing compounds. The TAL range of primers consists of TAL Key coat, TAL Floor Primer, TAL Floor key, TAL Epoxy Primer and TAL Super prime.

### **Additives**

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Figur 2 Additives

An additive is a latex-based liquid, designed to replace water in a cement-based adhesive and / or grout mix which is used when tiling or grouting external areas, wet areas, high traffic areas and areas where some flexibility is required. Our range of additives includes TAL Bond and TAL Screed binder.

TAL Bond improves the bond strength, flexibility and water-resistance when used as a water replacement in cement-based adhesive and grout mixtures.



Additives aid in water-resistance while increasing the flexibility of the adhesive and grout. For this reason, adding an additive to the grout mixture when you are installing tiles in wet areas, such as showers, and exterior applications is imperative. When TAL Screed binder is added to TAL Super screed, its bond strength and flexibility is improved. If you mix TAL Screed binder with TAL Super screed, the screeding compound can be used as a protective barrier under ceramic tile heating elements. When using an additive in the adhesive or grout mixture, it is important to use the full amount of additive as stipulated in the instructions on the packaging. Never dilute the mix with water as this will compromise the latex, which affects the flexibility and water-resistance of the adhesive or grout. Also remember, the additive is always used as a water-replacement in the mix

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Self-Check -1	Written Test	
Directions: Answer all th	ne questions listed below. Use the Answer sheet provided in t	he

next page:

- 1) What we call Primers usually mixed with cement or tile adhesive? (5points)
- 2) Adhesive/Primer Suitable for both residential and commercial construction (true/false)?(2points)
- 3) What is the TAL range of primers consists?

Note: Satisfactory rating - 4 and 7 points Unsatisfactory - below 4

You can ask you teacher for the copy of the correct answers.

Answer	Sheet
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Score =	
Rating:	

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October 2019

Name:	Date:
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**Short Answer Questions** 



Operation Sheet 1	Apply Primers and adhesives	
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### Procedures for Applying Primers and adhesives

Step 1- prepare the area

Step 2- Prepare & adjust available material.

Step 3- Mix the Primers and adhesives material within the given ratio.

Step 4- applying with a black-brush to the surface

Step 5: clean up



Information Sheet-2	Applying Safety procedures

### 5.2 Applying Safety procedures

People credited with this unit standard are able to: demonstrate knowledge of primers and adhesives used for floor and wall tiling, select primers and adhesives, mix primers and adhesives on site, apply primers and adhesives to tile substrate on site, and complete work operations

Primers and adhesives include – cement-based, acrylic-based, one-pot adhesive, two-pot adhesive, three-pot adhesive; evidence of two types of primers and two types of adhesives is required

### **Priming**

- 1. Ensure the substrate is in good condition, clean and dry.
- 2. Prime rough, porous surfaces with TAL FLOOR PRIMER and smooth, dense surfaces with a TAL FLOORKEY slurry coat (one part TAL FLOORKEY to two parts tile adhesive powder or 1.5 parts ordinary Portland cement, by volume

### Adhesive/Primer

Adhesive/Primer is a high performance adhesive/primer designed to help create a high strength bond between self-adhered flashing products and wall surfaces where either adhesion can be difficult or for use in cold temperature applications.

Adhesive/Primer is designed to enhance the bond strength of butyl backed self-adhered flashing products when applied on specific wall surfaces or at low temperatures, where additional adhesion is required to ensure a high quality flashing installation. The installing contractor can be confident that the flashing will have a durable bond, that won't pull away.

### Recommended Uses

- Strengthening adhesive bonds for butyl backed construction materials such as self-adhered 100% butyl backed Flashing Systems products, specifically when applied to building substrates such gypsum, CMU, concrete, metal, glass and plastics where adhesion can be an issue.
- Cold weather applications
- Can be used on wood Adhesive/Primer is not typically needed when applying
- Flashing Systems products to wood at or above 25°F (-4°C)

### Features & Benefits

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- Suitable for both residential and commercial construction
- Water and heat resistant
- Cold weather application down to 0°F (-18°C)
- Dries clear and will not yellow with age
- Easy to use, no-mess spray nozzle
- Can apply multiple coats
- Does not bubble



Self-Check -1 Written Test
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**Directions:** Answer all the questions listed below. Use the Answer sheet provided in the next page:

 Adhesive/Primer Suitable for both residential and commercial construction (true/false)?(5points)

Note: Satisfactory rating - 3 and 5 points Unsatisfactory - below 3

You can ask you teacher for the copy of the correct answers.

Answer :	SI	h	е	e	ĺ
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Score =
Rating:

Name:	Date:
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**Short Answer Questions** 



## Answer keys for learning guide -104

Self check 1
1/ slurry
2/ true
3/TAL Key coat, TAL Floor Primer, TAL Floor key, TAL Epoxy Primer and TAL Super prime
Self check 2
1/ true