Secure wet room

- Pre-conditions
- Preparation
- Self-control
- Execution

This **work instruction** is designed for use in detailed planning and preparation of work on construction projects. With thorough planning high levels of personal safety and optimal work apportionment can be achieved at the same time as the work can be organized efficiently and cost effectively.

There are two classes of waterproofing: Waterproof and water resistant

Industry standards for linings of plastic in wet areas

GBRs (Flooring Industry National Organizatio), the industry standard for plastic flooring and wall covering material requirements, execution and testing.

The standard comprises two classes:
* Class VT = waterproof
* Class VA = water repellent

VT is required in, for example, bathrooms and
VA example around the sink

See also:
* GVK:s website ***www,gvk.se***
***** GVK:s Recommendation - Secure wetroom - waterproofing/ceramics.
***** Leak testing of joints in the floors and walls of plastic with GVK - pump of the SS 0923621

Work activity & Problem	P	C	Risk= P*C	Action
Unsuitable work posture, overstraining	10	20	200	
Cluttered workplace =Twisting or fall injuries	10	15	150	Regular tidying

		Assessment of probability		**Assessment of consequences**		
Probability = P	P = 0,1	Very unlikely	(<1 times/10 years)	C=0,5	Trifle	
Consequence = C	P = 1	Unlikely	(1 times/10 years)	C=1	Tiny	(1 - 2 days sick leave)
Risk = P * C	P = 3	Low probability	(1 times/3 years)	C=5	Small	(3 - 7 days sick leave)
	P = 10	Relative probability	(1 times/year)	C=15	Tactile	(8 - 29 - ” -)
	P = 30	Probable	(1 times/month)	C=70	Severe	(30-299 - ” -)
				C=500	Very severe	(>300 - ” -)

Text from the Working Environment Authority's brochure Safer Construction Work

Personal Protective Equipment § 71

Safety helmet and safety shoes shall be used unless it is clearly unnecessary. Other personal protective equipment such as eye protection, hearing protection and gloves should be worn when required.

Glasses and hearing

If you have glasses with earpieces that go into the ear cushions on hearing protection this reduces the damping effect. It is then important to choose hearing protection for which sound reduction has been measured when the protection is worn together with glasses. If special glasses with narrow frames are needed, the employer must provide such.

Protective facilities

Check that the required safety devices are accurate and secure before work begins. A job may mean that you have to put up a temporary barrier around the site to prevent anyone from getting hurt.

Fire hazards and fire equipment

Notify the person responsible for the coordination of fire protection if flammable materials will be used. Evacuation routes must be kept clear.

Find out where the fire extinguishers are located. Gas and LPG cylinders shall, when not in use, be collected at specially designated places and warning signs put into place.

Material Storage

Materials shall be stored at designated places. Check that the transport routes are not blocked. Dispose of all waste materials by hand!

Check the surface and the temperature

Suitable substrates are concrete, plaster, stucco and plaster.
Surfaces of wood should not be used.

Concrete must be cured for at least two months. Bumps and indentations must be filled. Control of relative humidity should be in accordance to YSC.1 in HUS AMA 98

Plasterboard: It is adequate with a 13 mm plasterboard sheet with studs c/c 400 mm. Sitting joists with c/c 600 mm, require two plasterboard sheets.

Plaster must have floated surface structure 3-4 by LBS HOUSE AMA 98. Lime should not be used.

Putty shall be weather resistant and have binders of cement or plaster. Sand Putty or other organic use shall not be used.

Aerated concrete is trowelled or trimmed.

Materials and file must have at least +10° C.

Equipment

- ☐ Rollers
- ☐ Brushes
- ☐ Knife/scissors
- ☐ Pen

Product	Consumption/m2	Area (m2)	Material consumption
Moisture Protective products such as: PCI Wadian S floor	about 0.20 kg		
PCI Sealing tape 10 m	as needed		
Rollable sealing kit e.g.: PCI-X Lastogum about	about 1.5 kg		
PCI fiber strip 25 m pkg			
PCI Sealing tape 10 m	as needed		
PCI Internal corner	as needed		
PCI External corner	as needed		

Storage of materials

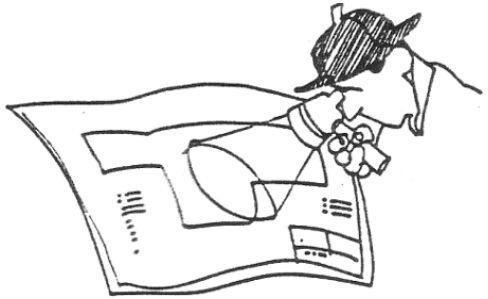
Material shall have a minimum temperature of +10˚ C.

The material shall be stored on pallets or studs and protected from moisture.
The packages should not be opened before the assembly.
Rolls should be stored upright.

No	Check	Metod or equipment	Frequency	Result	Date Signature	Deviation/Remedy Approval/Non-A
1	Test for leaks					
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

Quality criteria for the project and the product

- Study Drawings, Specifications and Control plan
- Think through the alternative **methods of production** and handling of materials, tools etc. that can meet the requirements



Pay particular attention to

- Check the specification and the drawings concerning requirements for slope and smoothness
- Do not carry out the coating if the substrate does not meet requirements
- Follow manufacturer's instructions for glue etc and application
- Be careful with penetrations and connections

1

Roll out the moisture protection mass (e.g. PCI Wadian S) thickly over the floor, but not in the floor drain. Materials about 0.20 kg/m2. Allow to dry.

2

Brush sealing compound (e.g. PCI Lastogum X) around and a bit up the sewer pipe to WC and washbasin.

3

Roll and fit drain cuffs so that the collars extend up the pipe. Embed sleeves in sealant (e.g. PCI Lastogum X).

4

Embed the drain cuffs in sealant (e.g. PCI Lastogum X).

5

Seal around the floor drain with PCI grid cuff.
Remove the drain clamping ring. Center the cuff over the grid and draw along the edges.
Remove backing paper and press the cuff into place shaping it down with your fingers so that the well contour emerges.

6

Center template over the grid. Drawing around the template. The hole is 10 cm in diameter.

7

Shaping the cuff around the sides of the grid.

8

Cut to shape, so that the cuff ends up a few millimeters up to the grid sides.
The cuff must not be below the clamping ring.
This installation process applies for most grids.

9

Install the clamping ring. Make sure that it rests on the bottom of the grid. grid cuff is suitable for connection to the drains for Ido products, Joppa and Sjöb Bruk etc.
The sealant should be worked up to the clamping ring.

10

Roll out a second layer of sealant as before. Materials consumption is about 0.75 kg/m2.
The whole grid cuff, down to the clamping ring, shall be covered.

Tiles or plastic mats can normally mounted the day after.

Remember:
The adhesive film should allowed to dry before the wet room is exposed to water spray. On absorbent surfaces such as plaster the drying time is about 2 days. The dense surfaces the drying time is about 7 days.
Valid at +18 degrees, and RH* 30 – 60 %.

(*Relative Humidity)