

## CONSTRUCTION PROCESS GUIDE

Waterproofing balcony with protective coating using **Neoproof® Polyurea R**



### INSTRUCTIONS FOR CONSTRUCTION STEPS

#### 1. SURFACE PREPARATION

- Surface must be clean, free from flaking, contamination, or grease.
- The surface must be completely dry and free of standing water before waterproofing.



Unfinished concrete surface



Use a grinder to polish the concrete surface



Patching concrete surfaces with Neorep repair mortar



Concrete surface achieved

#### 2. HUMIDITY MEASUREMENT

- Construction conditions: Surface moisture must be < 4%, air humidity < 80%.
- Apply at temperatures from +5°C to + 35°C.



Concrete surface moisture ≥4% not reached



Concrete surface moisture <4% achieved

#### 3. CHECK WEATHER FORECAST

- Construction conditions: No Rain for 3-5 days

#### 4. PIPE COLLAR TREATMENT CONSTRUCTION



Chisel around the pipe neck, insert foam or formwork below the pipe neck



Clean the neck of the pipe, wrap the expansion bar



Grouting Construction Lemax Grout LM-G650



BS 8620S Sealant Injection around Pipe Neck

#### 5. WATERPROOFING CONSTRUCTION



##### Step 1:

Apply **Acqua® Primer NP** primer mixed with 25-30% clean water.  
 Consumption: 0.05 kg/m<sup>2</sup>  
 (Primer primer material must be stirred with a slow speed mixer for 3 minutes before construction,...)



##### Step 2:

Mixing instructions for **Polyurea R** material (Component A must be thoroughly stirred for about 1 minute. Then mix component B with component A in the ratio of 13A:6B according to the quantity and stir for about 3 minutes with a slow speed mixer until the mixture is homogeneous.)



##### Step 3:

Apply the first coat (pure) 24 hours after the primer coat is finished.  
 Consumption: 0.5-0.6 kg/m<sup>2</sup>



##### Step 4:

Reinforce **Neotextile® NP** fabric at the base of the wall while the first layer is still wet to enhance tear resistance.



##### Step 5:

Apply the second coat (pure), 12 hours after the first coat has been applied.  
 Consumption: 0.5-0.6 kg/m<sup>2</sup>



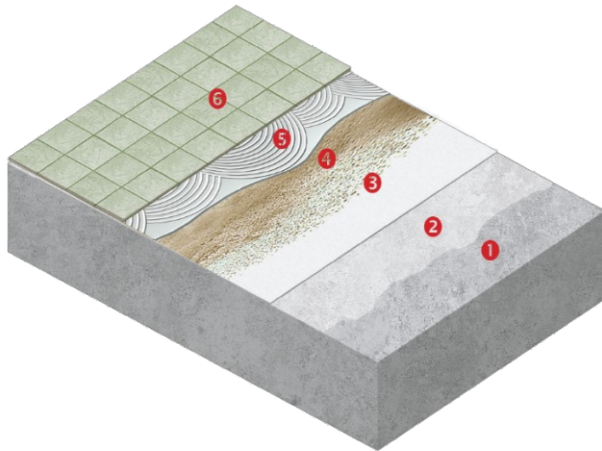
##### Step 6:

Finished surface (material completely hardened after 7 days), then soaked in water to inspect the project.

#### SPECIAL NOTE

- Do not apply **Neoproof® Polyurea R** when it is raining or rain is forecast.
- The consumption of each layer of unreinforced **Neoproof® Polyurea R** must be less than 1kg/m<sup>2</sup>, to minimize the risk of solvent entrapment in the waterproofing membrane.
- In case of projects with higher requirements for mechanical strength and crack bridging ability, **Neoproof® Polyurea R** should be reinforced with **Neotextile® NP** non-woven polyester fabric on the entire surface.
- The durability of the waterproofing material is proportional to the total thickness of the dry waterproofing membrane, which can be achieved by applying an additional layer or layers.
- Do not test the material for immersion in water when it has not fully cured (before 7 days).

## SYSTEM STRUCTURE


**WATERPROOFING UNDER TILES  
 BALCONY/TERRAIN/ROOF**

- 1 Cement base
- 2 Primer material: **Acqua® Primer NP**
- 3 Waterproofing layer:  
**Neoproof® Polyurea R** (minimum 2 layers)
- 4 Quartz sand (sprinkled)
- 5 Ultra Bond Tile Adhesive
- 6 Tiles

**Neoproof® Polyurea R** consumption: 1.0-1.2 kg/m<sup>2</sup> / 2 layers

## IMAGES OF MAIN PRODUCTS, ACCESSORIES AND CONSTRUCTION TOOLS

Neoproof® Polyurea R	Acqua® Primer	Neotextile® NP Fabric
Neorep - Repair mortar	Sealant BS 8620S / Jointex®	Expanding tape
Lemax LM-G650 Grout	Brush, Roller / Agitator	Pressure Washer / Sprayer

Note: To ensure the highest quality and longevity of the project, customers must comply with the construction process, standards, and construction methods provided by the manufacturer.