

CONSTRUCTION PROCESS GUIDE

Waterproofing exposed car park roof using **Neoproof® Polyurea R + Neodur® FT Elastic**

EXTREME WATERPROOFING

Cold applied polyurea - Premium waterproofing solution

- 👍 Elongation ~ 400%
- 👍 Adhesion > 3N/mm²
- 👍 High abrasion resistance
- 👍 Lifespan > 20 year



INSTRUCTIONS FOR CONSTRUCTION STEPS

1. SURFACE PREPARATION

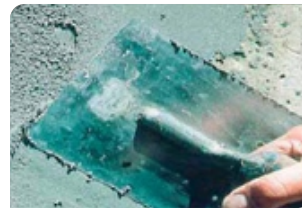
- Surface must be clean, free from flaking, contamination, or grease.
- The surface must be completely dry and free of standing water before waterproofing.



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 < 85%.
- 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: 0.15 kg/m²
(Primer primer must be stirred with a slow speed mixer for 3 minutes before application,...)



Step 2:

Mixing instructions for Neoproof 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/m²



Step 4:

Apply the second coat (pure) after the first coat dries after 12 hours.
Consumption: 0.6 kg/m²



Step 5:

Sprinkle quartz sand to roughen the surface during the second coat application
Consumption: 3.0 - 4.0 kg/m²



Step 6:

Apply the 3rd coat (pure) after the 2nd coat dries after 12 hours.
Consumption: 0.6 kg/m²



Step 7:

Apply 4th coat of Neodur FT Elastic
Consumption: 0.4 - 0.5 kg/m²



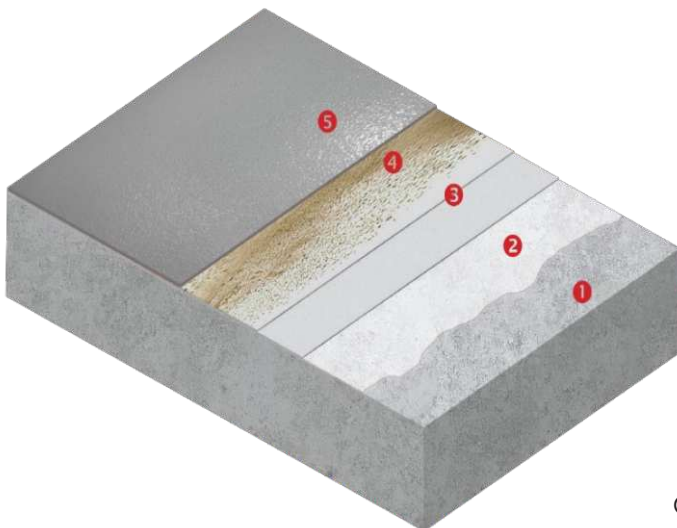
Step 8:

Surface finish

SPECIAL NOTE

- Do not apply Neoproof® Polyurea R; Neodur® FT Elastic when it is raining or rain is forecast.
- The consumption of each layer of unreinforced Neoproof® Polyurea R must be less than 1kg/m², 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, it is recommended to reinforce Neoproof® Polyurea R 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 stir Neodur® FT Elastic too much to avoid air bubbles. After stirring the mixture, it is recommended to use the product immediately to avoid high temperatures and polymerization inside the container.
- When applying Neodur® FT Elastic, avoid rolling back and forth too much and apply continuously, as the fast drying nature of the material can cause ghosting on the finished surface.

SYSTEM STRUCTURE



WATERPROOFING FOR OPEN PARKING FLOOR

- ① Cement base
- ② Primer material: **Acqua® Primer NP**
- ③ Waterproof layer:
Neoproof® Polyurea R (minimum 3 layers)
- ④ Quartz sand (sprinkled)
- ⑤ Abrasion-resistant waterproof coating:
Neodur® FT Elastic

Consumption: **Neoproof® Polyurea R** 1,8kg/m²/3 layer
Neodur® FT Elastic: 0,4 - 0,5 kg/m²/layer

IMAGES OF MAIN PRODUCTS, ACCESSORIES AND CONSTRUCTION TOOLS

		
<p>Neoproof® Polyurea R</p>	<p>Neodur® FT Elastic</p>	<p>Acqua® Primer NP</p>
		
<p>Neotextile® NP Fabric</p>	<p>Sealant BS 8620S / Jointex®</p>	<p>Neorep - Repair mortar</p>
		
<p>Lemax LM-G650 Grout</p>	<p>Brush, Roller / Agitator</p>	<p>Pressure Washer / Sprayer</p>

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.