



SPARTAN Construction Materials Limited

Neodex KA/KR – 770

Spray applied hybrid polyurea waterproofing membrane

Description

Neodex KA/KR - 770 is a hybrid type, consist of polyurea and polyurethane solvent free, two components, pigmented, and spray applied quick set elastomer.

General Recommended / Use

Neodex KA/KR - 770 system provide waterproofing solution to the fields, such as the roofing, stair floors and corridors of dwelt apartment house and commercial building, where needs extreme fast and environmental solution.

Features and Benefits

- Extremely fast setting
- Excellent elongation
- Good durability
- Can be applied on vertical surface
- Easy and fast application
- Water vapour permeability
- Excellent mechanical strength
- Resistant to standing water
- Extreme Elastic at extreme low temperatures
- Solvent free – Environmental friendly

Physical Properties

Item	Content
Products designation	2 component, solvent free hybrid type spray elastomer
Specific composition	a) Resin: Isocyanate Qusai-Prepolymer b) Hardener : Amine mixture with pigment
Solid content (ASTM D2697)	100%
Elongation(%)	400 ~ 800 (%)
Tear strength (N/mm)	30~50
Tensile strength (MPa)	7~12
Hardness (Shore A)	65~75
Finish	Semi-gloss
Color	Gray as standard color Alternative color available
Mixing ratio	1.05:1
Theoretical coverage	1.3kg/m ² at 1000μm 1.95kg/m ² at 1500μm 2.6kg/m ² at 2000μm
Application temperature	Products : 20~60°C Ambient: 0~60°C Hose: 60~70°C



SPARTAN Construction Materials Limited

Neodex KA/KR – 770

Spray applied hybrid polyurea waterproofing membrane

Properties

Neodex KA/KR -770 has an excellent elongation with very well abrasion resistance. The fast reactivity makes it's can only be applied with a compatible two component spraying machine.

Substrate preparation

The substrates should have to be firm, dry and load-bearing, free of any loose particles as well as substrates which impair adhesion such as oil, grease, rubber skid marks, paint or other unexpected contaminants. Pre-treatment of the substrate by grit or shot blasting, high pressure water jetting, grinding or scarifying is only necessary when the primer or scratch primer is very dirty or exceed the re-coating time interval.

All cracked over 1/16" in width shall be routed out to 1/4" in width and in depth and fill with polyurethane elastomeric sealants properly.

After pre-treatment of the substrate the bond strength of the substrate must be achieve 1.5MPa. The substrate to be coated should be protected properly to against rising damp.

Surrounding area must be protected carefully to prevent overspray by masking proper materials, such as paper or plastic.

Primer

All surfaces should be primed with Neodex T - 117 before to application at the dosage rate of 0.2~0.3kg per square meters.

The necessary cure time for the primer normally takes 3 to 4 hours at the temperature 30°C, and the cure time will slower when the temperature drop below 15°C.

Make sure the Neodex T -117 has cured to the 'tack-free' state before to apply of Neodex KA/KR -770.

Membrane

1.5kg - 2kg of the Neodex KA/KR -770 are normally recommended to obtain a thickness of 1.5mm per square meter, subjected to the actual site condition.

Top coat

Weather resistant top coat, Neodex TC-60A/KU-62T shall be applied by spray or roller at the rate of 0.3kg per square meters, for the protecting and UV resistance purpose.

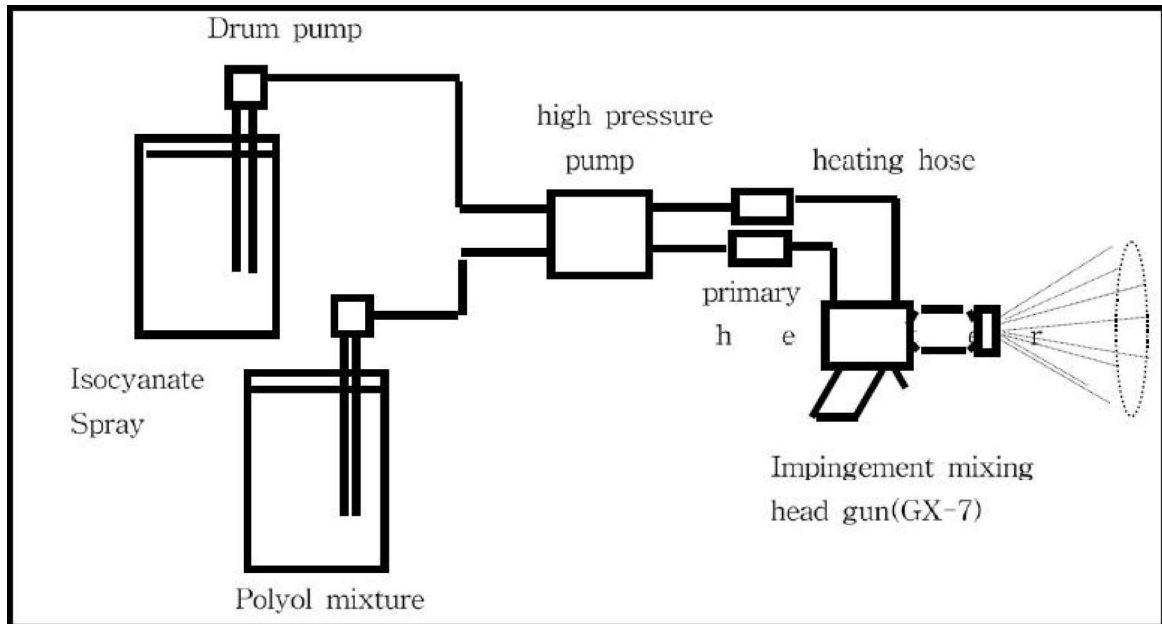


SPARTAN Construction Materials Limited

Neodex KA/KR – 770

Spray applied hybrid polyurea waterproofing membrane

Application diagram



Cleaning

The machine must be cleaned with proper cleaner, recommends SPARTAN DOP or DPM (sets of houses storage tank). Cured or solid material should be removed mechanically.

Packaging

Neodex KA/KR -770 supplied in 210kg drums – Part A and 200kg drum – Part B.

Shelf Life

Under dry conditions and the temperature range between 15-30°C. Do not expose to direct sunlight. Under such conditions the material would has a shelf life of 12 months.

Precautions

Neodex KA/KR -770 is non-hazardous to human in cured condition. Wear suitable safety gloves, goggles and protective coating. Avoid inhaling the fumes and contact with the skin directly. When working with the product. Do not eat, smoke or wok near a naked flame.