



SPARTAN Construction Materials Limited

NeoForce KA/KR - 790

Spray applied hybrid polyurea waterproofing membrane

Description

NeoForce KA/KR - 790 is two components, solvent free, pigmented, and spray applied quick set elastomer.

General Recommended / Use

NeoForce KA/KR - 790 systems 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
- High build performance
- Can be applied on vertical surface
- Easy and fast application
- Water vapour permeability
- Excellent mechanical strength
- Crack bridging
- Resistant to standing water
- Elastic at extreme low temperatures
- Solvent free – Environmental friendly

Physical Properties

	NeoForce KA - 790	NeoForce KR – 790T
Appearance	Light yellowish liquid	Colored Liquid
Viscosity(cps, 25°C)	400 ~ 1,000	400 ~ 1,000
Non-volatile-Content, VOC (%)	100	100
Mixing ratio (w/w)	100	100
T.F.T (second)	5~15	
Tensile strength (MPa)	15~19	
Tear strength (N/mm)	45~55	
Elongation (%)	350~450	
Hardness (Shore A)	85~95	
Mixing Ratio By weight	1.05:1	



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Properties

NeoForce KA/KR - 790 has an excellent tensile and tear strength with remarkable abrasion resistance. The fast reactivity resulted it's can only be applied with a compatible two component spraying machine.

Substrate preparation

The substrates 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 approved MS Polymer sealants (The technology of Modified Silyl) 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 temperature 30°C, and will have slower cure time when the temperature below 15°C.

Make sure the Neodex T-117 has cured to the 'tack-free' state before starting to apply of NeoForce KA/KR - 790.

Membrane

1.5kg - 2kg of the NeoForce KA/KR - 790 are normally recommended to obtain a thickness of 1.5mm per square meter, subjected to the actual site condition.

Top coat

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

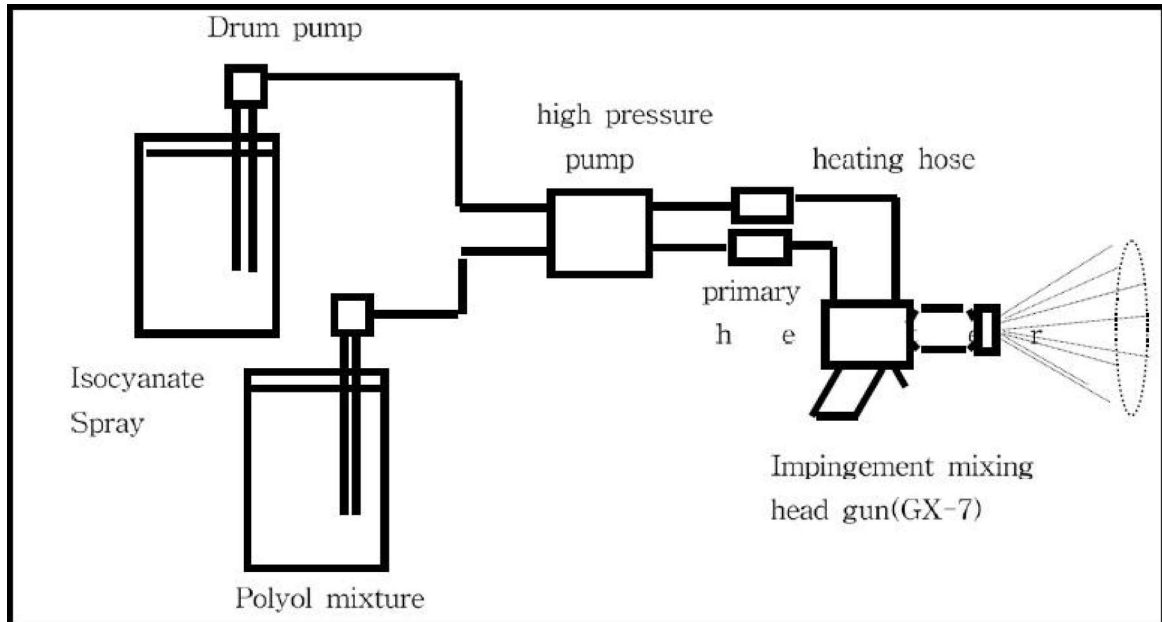


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Application diagram



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

NeoForce KA/KR - 790 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

NeoForce KA/KR - 790 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.