



● NPR-12 (NOVACOS Polyurethane Resin)

NPR-12 is a specialized high molecular substance especially invented as a conjugation material of a piezo sensor through various kinds of sensors laying in roads.

The specialty of this Polyurethane Resin is in its simple usage, easy construction and genuinely designed and manufactured with Korean production which is optimized to all kind of road surface conditions for great efficiency on roads.



RESIN

● Structural elements of NPR-12

The NPR-12 is formed with resin and hardening agent, Resin and hardener are packed individually so by combining each pack with a 1:1 ratio the product is ready. The substance is designed for efficiently in use. Combine the resin and hardener then apply on the cut end and line. The concentration of the substance becomes hard enough, possible for vehicular traffic, in about 30 minutes the construction hour can be shortened with this production. The NPR-12 for all season so it is separated into Summer(S)/Winter(W) application and also each of them are orderable which is adjusted to intense heat or severe cold.

● Structural elements of NPR-12

- Non-toxicity material used
- Product specially orderable which is specialized for each season(S/W)
- Great physical quality : intensity, elasticity, extension rate of the product
- Superb efficiency in both Concrete and Asphalt (Usable in 30 minutes after construction)
- Optimized, minimized the hardening time

NPR-12

Manufacturer	Test item	Test Method	Acceptance criteria
NOVACOS	Tensile strength	KS M 3006	more than 3N/mm ²
	Elongation Ratio	KS M 3006	more than 1%
	Tensile modulus	KS M 3006	more than 300N/mm ²
	Compressive strength	KS M ISO 604	more than 10MPa
	Compression modulus	KS M ISO 604	more than 200MPa
	Flexural strength	KS M ISO 178	more than 8MPa

Specimen : No.1 type
Test Speed : 1mm/min

Test Speed : 5mm/min
Support Distance : 150mm

