

# PROTECH NH-270(LP)

## Hybride polyurea



PROTECH NH-270(LP) is a paint applied using a dedicated spray equipment. The product is a special paint mainly composed of the bonding between urea and urethane with its fast curing reaction resulting in a coating (film). The coating is a hybrid-type urea paint with excellent elasticity, abrasion resistance, and elongation, and extremely excellent impact resistance, cold resistance, water resistance, durability, and adhesion.

Usage

Waterproofing material for buildings

### Specification

Paint type	Polyurea / Intermediate coating (Two-Component)			
Drying time	Category	5°C	20°C	30°C
	Set-to-touch	Less than 1 minute	Less than 1 minute	Less than 1 minute
	Dry-through	Less than 2 hours	Less than 1 hour	Less than 1 hour
Above drying time have been measured under laboratory conditions and may vary depending on the construction site.				
Thinner	Not applicable		Dilution ratio	-
Specific gravity	Approx. 1.05 (Mixed)			
Theoretical Coverage	2.2 kg/m <sup>2</sup> (Based on 2mm)		Solid volume ratio	99%
Color	Green, gray, other ordered colors		Thickness of dried film	-
Mixing ratio	Base(A)/hardener(B)=100/100 (Volume ratio)		Flash point	
Shelf life	6 months (5~35°C indoor storage)		Packaging unit	30.8 kg [Base(16 kg), Hardener(14.8 kg)]

### Product Properties (Physical Property Data)

Tensile strength	More than 10 N/mm <sup>2</sup>	Tearing strength	More than 35 N/mm
Elongation rate	More than 450 %	Hardness	shore A 70 ± 5

### How to Use

Surface treatment	<ol style="list-style-type: none"><li>1. Completely remove oil, moisture, sand, dust, and other foreign matter from the surface to be coated.</li><li>2. Cure concrete for at least 28 days at a temperature of 21°C and a relative humidity of 60%.</li><li>3. Remove the protruded parts using a grinder. Cracks on the surface should be repaired before coating.</li></ol>
Coating Conditions	<ol style="list-style-type: none"><li>1. If the temperature of the substrate is -5~50°C, spraying is possible.</li><li>2. Moisture content in the concrete: 6% or less</li></ol>
Coating Method	<ol style="list-style-type: none"><li>1. Apply by using exclusive spraying equipment within one day after primer.</li><li>2. Use the hardener containing pigments after sufficiently stirring with a drum stirrer before use.</li><li>3. For a base made of steel, apply after blasting surface treatment and primer treatment.</li><li>4. If the surface condition is poor after primary coating, reapply within 24 hours.</li><li>5. Upon spray coating once back and forth, a coating thickness of 0.2~0.3mm can be obtained, and the coating and the coating thickness desired for continuous work can be formed.</li></ol> <p>Recommended construction equipment: SPRAY equipment for polyurea (Graco/Gusmer Reactor E-XP 2 or higher)</p> <p>▷Primer : PROTECH 100 (or CLEANTHANE 1000, BLACKTHANE 100) (It may vary depending on the substrate)</p> <p>▷Intermediate coating: CLEANTHANE 2100(KSF-3211) can be used as a base adjusting agent.</p> <p>▷Top coat : PROTECH 300 (or DHDC-3000(H)) (coating for external exposure)</p>