

# PROTECH NP-200

## Pure polyurea



PROTECH NP-200 is a paint that is applied using exclusive spray equipment. The curing reaction is done within a few seconds, and a coating film is formed. It is a standard paint corresponding to KS F 4922 polyurea resin coating waterproofing material and forming a coating film that is excellent in elasticity, abrasion resistance, and elongation as well as superior in impact resistance, cold resistance, water resistance, chemical resistance, durability, anti-corrosion and adhesion.

### Usage

Waterproof flooring material for various engineering works and buildings, flooring material for steel structures, water tank waterproofing and coating for maintaining cleanliness

### 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 60 minutes	Less than 60 minutes	Less than 60 minutes
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	1.05 kg/m <sup>2</sup> (Based on 1mm)	Solid volume ratio	99±1 %	
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	405 kg [Base(210 kg), Hardener(195 kg)]	

### Product Properties (Physical Property Data)

Tensile strength	More than 16 N/mm <sup>2</sup>	Tearing strength	More than 50 N/mm
Elongation rate	More than 300 %	Hardness	Shore A 95 ± 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 thickness desired for continuous work can be formed.</li></ol> <p>Due to the formation of dust in the overlapping area during spraying, it is finished with the embossing method.</p> <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, DHDC-0700(steel))</p> <p>▷ Intermediate coating: CLEANTHANE 2100(KS F 3211) can be used as a base adjusting agent.</p> <p>▷ Top coat : PROTECH 300 (or TANSUNG TAN TOP COAT (HARD, VERY HARD) DHDC-3000(H))</p> <p>(Coating for external exposure, omit when applying non-exposed section (water tank, etc.))</p>