

PROTECH NH-290

Hybride polyurea



PROTECH NH-290 is a paint that is applied using exclusive spray equipment. It is a special paint composed mainly of urea and urethane bonds, and the curing reaction occurs within a few seconds to form a coating film. It is a hybrid urea paint for high hardness materials that forms a coating film excellent in elasticity, abrasion resistance, and elongation as well as superior in impact resistance, cold resistance, water resistance, durability, and adhesion.

Usage

Waterproofing/anti-corrosion material for concrete structures, flooring and waterproofing materials for buildings

Specification

Paint type	Polyurea / Intermediate coating (Two-Component)			
Drying time	Category	5℃	20℃	30℃
	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/m² (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℃ indoor storage)		Packaging unit	405 kg [Base(210 kg), Hardener(195 kg)]

Product Properties (Physical Property Data)

Tensile strength	More than 16 N/mm ²	Tearing strength	More than 50 N/mm
Elongation rate	More than 300 %	Hardness	shore A 90 ± 5

How to Use

Surface treatment	<ol style="list-style-type: none">1. Completely remove oil, moisture, sand, dust, and other foreign matter from the surface to be coated.2. Cure concrete for at least 28 days at a temperature of 21°C and a relative humidity of 60%.3. Remove the protruded parts using a grinder. Cracks on the surface should be repaired before coating.
Coating Conditions	<ol style="list-style-type: none">1. If the temperature of the substrate is -5~50°C, spraying is possible.2. Moisture content in the concrete: 6% or less
Coating Method	<ol style="list-style-type: none">1. Apply by using exclusive spraying equipment within one day after primer.2. Use the hardener containing pigments after sufficiently stirring with a drum stirrer before use.3. For a base made of steel, apply after blasting surface treatment and primer treatment.4. If the surface condition is poor after primary coating, reapply within 24 hours.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. <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>