



# Company Profile

Customers should be offered

The best solution to meet their needs



PT. Wahana Indoko Pratama  
Indonesia since 1993

[www.wip.co.id](http://www.wip.co.id)  
[info@wip.co.id](mailto:info@wip.co.id)



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## About PT. Wahana Indoko Pratama



### Introduction

Pt Wahana Indoko Pratama was established in 1993 as applicator of spray waterproofing (Polyurea) and spray Polyurethane Foam (Pufoam) insulation specializing in construction, refurbishment, mining, oilfield, pipeline and manufacturing applications.

The knowledge and experience gained from employing this new generation of quick curing spray waterproofing polyurea & polyurethane foam insulation technology continues to play a major role in the ongoing success of the company. Today, with our strong reputation for using tomorrow's technology in today's industry, PT. Wahana Indoko Pratama remains the leader in spray waterproofing (Polyurea) and spray Polyurethane Foam (Pufoam) insulation coating solutions for our customers.



PT. Wahana Indoko Pratama (WIP) is primarily an industrial contractor with vast field knowledge of installing specialist systems backed by a dedicated team of professional engineers who are able to design real world solutions. Having an unbiased source of products WIP are able to offer the best combination of products to truly meet the customer's needs.



### Our vision

To be regarded as a regional leader industrial contractor. Offering professional services that represent the interests of all stakeholders that can be relied on time after time.



### Our mission

Our primary goal is simple, "Quality". To achieve this both parties must understand the concept of "Quality" and because of this we choose to work with customers that are interested in quality and are prepared to apply their resources to achieve it. To achieve our goal we must deliver the project to meet the design or process requirements, without non-conformances, on time and within budget to remain competitive and be able to offer the customer the right solution at the right price.

## General information

- Name : PT. WAHANA INDOKO PRATAMA
- Address : Ruko Golf Lake Residence Venice Blok B no.18-19 RT/RW 014/011  
Jln. Kamal Raya Outer Ring Road Cengkareng Timur  
Jakarta Barat 11730
- Telephone : (021) 229 59 888
- Founded : Akta No. 124, 28 July 1993
- NPWP No : 01.635.199.1-074.000
- Legitimation : c2-9262 HT.01.01.Th.95
- SIUP : 08137.01/1.824.271
- TDP : 09.05.1.46.25387
- President Director : Chrees Sutandjati
- Bank Reference : BCA Capem Batu Ceper Jakarta, A/C No.224-300-8191
- PKP : PEM-15/UP/WPJ.06/KP.1303/2005

**SOLUTIONS**

**DISCIPLINE**

**PROFESSIONALISM**

## **Over two decades of coating experience**

WIP Coatings is an industrial contractor specializing in the application of protective coatings and linings for industry

### **OUR PROCESS :**

#### **DEFINE & EDUCATE**

We clarify carefully the clients' objectives, visions, specifications, and designs so to propose the best solutions. We quantify every detail and we educate clients of our products, solutions, and process.

#### **DESIGN & PROPOSE**

Our project teams will analyze the requirements, research, discuss with our suppliers, cost, and propose to the clients until solutions and budget can be agreed upon and contract is awarded.

#### **PROJECT DEPLOYMENT**

Every single project is managed by a dedicated specialized project team that will finalize project planning, procure, and deliver the solution with excellence.

#### **AFTER SALES SUPPORT OR MANAGEMENT**

All our projects are backed by manufacturers and workmanship warranty to give clients ease of mind. WIP is known for our commitment to after-sales service and for fixing mistakes made. Clients can also consider our post-project venue management service.



**COATING PROTECTION  
COMPANY IN  
INDONESIA  
SINCE 1993**

## OUR SERVICES

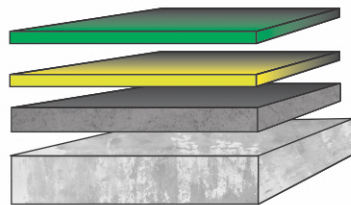
### Spray waterproofing

#### Polyurea

Polyurea coating technology is not new. In fact it has been around and in use for almost three decades now. Polyurea is newer and more advanced than other traditional coating systems and offers many advantages to the owner, specifier and contractor. Polyurea major benefit is its fast set nature. It can typically return an area to service many times faster than traditional coatings, allowing the owner to put the facility back in use without days and weeks of revenue losing down time. Down time for maintenance and coatings on water tanks, waste water clarifiers, parking garages and chemical storage tanks costs the facility owner a great deal of money since these areas must be taken out of service while other coatings are applied and drying.

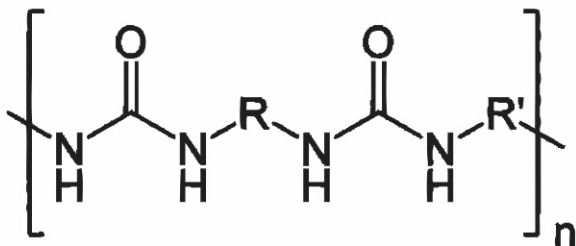
Most industrial use Polyurea are spray applied, so it is fast to apply and accurately proportioned and mixed. This application style allows for virtually any mm thickness to be applied in one or multiple passes. Additional characteristics such as slip resistant additives and surface textures can also be incorporated, UV stable colors can be achieved, and even NSF potable water approved systems are also possible with Polyurea.

Almost no coating can compare to Polyurea when it comes to attainable physical properties. Polyurea can be formulated to achieve a tremendous range of properties from high elongation to superior tensile strength to hard or soft, all based on how the materials is formulated and correctly applied.



#### POLYUREA COATING SYSTEM:

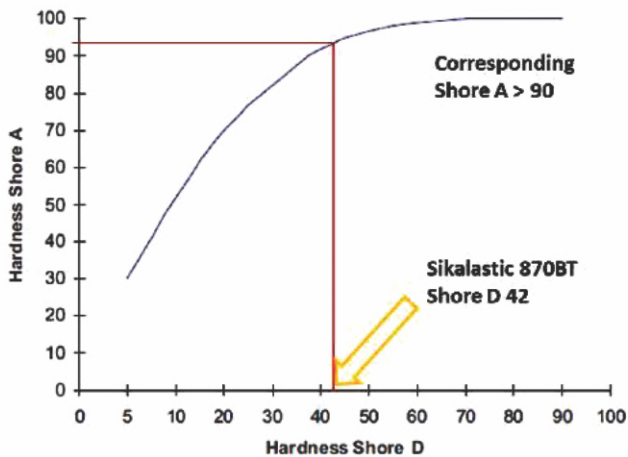
- spray polyurea (top coat)
- primer epoxy
- temporary moisture barrier
- concrete



#### Theoretical consumption :

1.10 kg/m <sup>2</sup> /mm	: 280%
Elongation at break	: > 20 N/mm <sup>2</sup>
Tensile strength	: ~ 20 N/mm <sup>2</sup>
Gel time	: ~ 42
Density	: 1,2 g/cc
- comp A	: 1 : 10
-comp B/C	: 1 : 10
Mixing ratio	: 1 : 1 (Vol-%) A/(B+C)

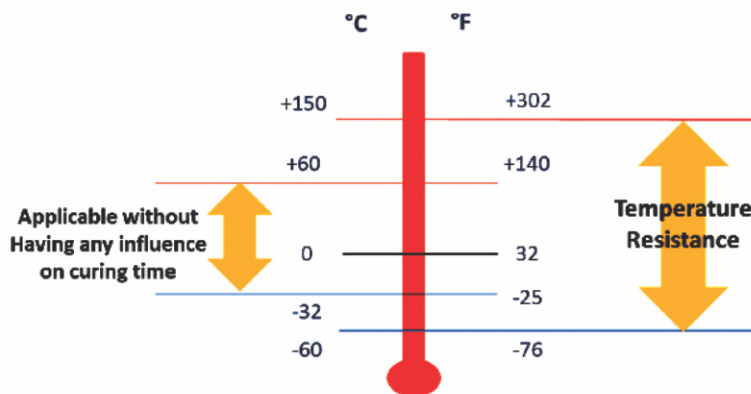
**Relationship: Shore A to Shore D**



Features :

- High reactive performance coating
- Very fast curing
- Mixing ratio 1:1 (Volume)
- High pressure and robust materials
- High chemical/Corrosion resistance
- Protect various substrate, Steel/Concrete/Wood

### Thermal resistance



High chemical resistance  
 sawage

Polyurea (PUA) Ideal for protection, storage of diluted acids, alkali, salt solution, organic solvent and oils.

Widely used for petrochemical plants, chemical processing facilities, waste water systems, reservoirs, sewage processing, manholes, holding tanks, secondary protection, etc.

Reason of high chemical resistance

Pure polyurea contains no -OH-group (polyols or catalys) so chemical Solutions or solvents cannot interface with PUAs.

**OUR SERVICES**

**Spray waterproofing**

**Polyurea**

**POLYUREA PROJECT REFERENCES**



*New Australian Embassy at Patra Kuningan, Jakarta*



*Menara Astra Ground Water Tank (GWT)*



*Nestle Pasuruan Roof Deck*

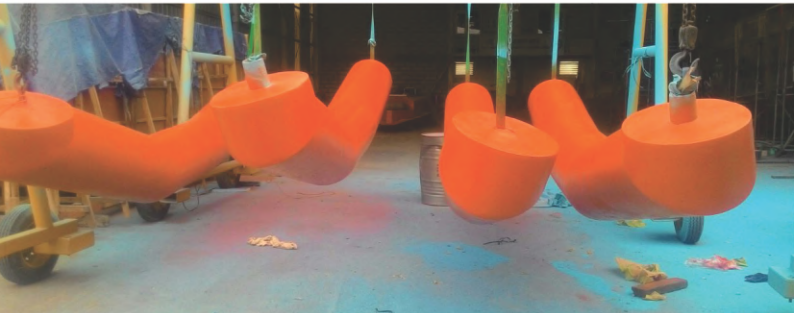


*Bio Gen Laboratorium, Institut Pertanian Bogor*

**POLYUREA PROJECT REFERENCES**



*GPEC PLTU Pangkalan Susu, Sumatera Utara*



*Rigid Inflatable Boat*



*Hatchery*



*Residential Swimming pool*

## OUR SERVICES

Spray waterproofing

Polyurea

## POLYUREA PROJECT REFERENCES



*Train Carriage*



*Cold Storage*



*Nestle Ckd roof deck*



*Waste Water Tank*

## OUR SERVICES

### Spray cold insulation

#### Polyurethane Foam

Spray foam is a chemical product created by two materials, isocyanate and polyol resin, which react when mixed with each other and expand up to 30-60 times its liquid volume after it is sprayed in place. This expansion makes it useful as a specialty packing material which forms to the shape of the product being packaged and produces a high thermal insulating value with virtually no air infiltration.



Reactivity profile

<b>Cream Time</b>	<b>Gel Time</b>	<b>Tack Free</b>	<b>Time End of Rise</b>
<b>0 – 1 seconds</b>	<b>2 – 4 seconds</b>	<b>3 – 5 seconds</b>	<b>4 – 6 seconds</b>



## Cold insulation - Polyurethane Foam

PU spray foam insulation saves on energy costs and lowers utility bills. Studies by the US department of energy show that 40% of a building's energy is lost as the result of heat infiltration through walls, windows, and doorways. Buildings treated with spray foam insulation typically insulate as much as 50% better than traditional insulation products. Insulation that is sprayed in buildings protects against moisture, which provides the benefit of reducing the chance of harmful mold and mildew. Eliminating mold growth reduces the likelihood of rotting wood in a home, and allergic reactions to mold spores. In addition to building's temperature and moisture control, spray foam insulation is often used to reduce noise.

Foam insulation serves as a barrier to airborne sound, and reduces airborne sound transfer through a building's roof, floor and walls.

## Benefits of spray polyurethane foam (SPF)

PHYSICAL PROPERTIES			
ASTM D 1622	Density	2.1 lb/ft <sup>3</sup>	33.6 kg/m <sup>3</sup>
ASTM C 518	Aged Thermal Resistance (R-value @ 1 inch) See ESR 3210, Table 1 for additional R-value information	7.4 ft <sup>2</sup> h <sup>2</sup> F/BTU	1.3 Km <sup>2</sup> /W
ASTM E 283	Air Leakage @ 75 Pa @ 1"	< 0.02 L/sm <sup>2</sup>	
ASTM E 2178	Air Permeance @ 75 Pa @ 1"	< 0.02 L/sm <sup>2</sup>	
ASTM E 96	Water Vapor Permeance @ 1.2" Qualifies as a Class II vapor barrier per IBC Section 202	< 1 perm	< 57.2 ng/Pa*s*m <sup>2</sup>
ASTM D 1621	Compressive Strength	28.7 psi	198 kPa
ASTM D 1623	Tensile Strength	46.2 psi	319 kPa
ASTM D 2126	Dimensional Stability @ 158°F (70°C) 97% R.H. (168 hrs, sample without any substrate) L/W/T	(% volume change) -1.37 / -0.42 / +0.27	
CA Spec 01350	VOC Emissions Standard	Compliant	
ASTM C 1338	Fungi Resistance	No fungal growth	
ASTM D 2856	Closed Cell Content	~ 90%	

FIRE TEST RESULTS / PASSIVE FIRE PROTECTION		
ASTM E 84	Surface Burning Characteristics, 4" thick Flame Spread Index Smoke Developed	Class I 20 400
NFPA 286	Ignition Barrier – Compliant with 2006, 2009 & 2012 IBC and IRC, and ICC-ES AC-377 Appendix X, for use in attics and crawl spaces without a prescriptive ignition barrier, thermal barrier or intumescent coating.	Pass
NFPA 286	Thermal Barrier – Compliant with the 2006, 2009 & 2012 IBC and IRC, as an interior finish without a 15 minute thermal barrier with BLAZELOK™ TBX at 11 mils  dry film thickness.	Pass
ASTM D 1929	Ignition Properties (spontaneous ignition temperature)	932°F (500°C)

## OUR SERVICES






Spray cold insulation

Polyurethane Foam

### Mechanical strength test

(N/mm <sup>2</sup> )	POLYURETHANE FOAM	EXPANDED POLYSTYRENE	EXTRUDED POLYSTYRENE	PHENOLIC	ROCKWOOL
Sliding Strength	0.08-0.15	0.09-0.16	0.18-0.5	0.05-0.15	0.03-0.2
Sliding Module	1.2-5.0	3.0-7.2	3.2-8.4	2.0-4.0	2.0-15.0
Tensile Strength	0.07-0.22	0.08-0.17	0.34-0.52	0.03-0.1	0.03-0.6
Tensile Module	1.0-10.0	1.0-10.0	45.0-70.0	1.0-3.0	5.0-40.0
Compression Strength	0.10-0.16	0.10-0.18	0.20-0.70	0.08-0.2	0.10-0.15
Compression Module	2.3-6.0	1.2-3.5	15.0-20.0	2.0-8.0	6.0-15.0

### Thermal conductivity test (W/M.K)

ROCK WOLL	PHENOLIC	EXTRUDED POLYSTYRENE	EXPANDED POLYSTYRENE	POLYURETHANE FOAM
0.034-0.040	0.022-0.028	0.025-0.028	0.034-0.037	0.022-0.028
				

## **Spray Polyurethane Foam commonly used as :**

- **Thermal Insulation**
- **Air Barrier**
- **Vapor Retarder**
- **Water Resistive barrier**
- **Interior and Exterior applications**

## OUR SERVICES

Spray cold insulation  
polyurethane foam

## POLYURETHANE FOAM PROJECT REFERENCES



*New Australian Embassy at Patra Kuningan Jakarta*



*AIM Internasional School*



*Rooftop Bina Arta*



*Wellpad Exxonmobil Cepu*

**OUR SERVICES**  
Spray cold insulation  
polyurethane foam

**POLYURETHANE FOAM PROJECT REFERENCES**



*Gor Tomboali, Bangka*



*RSUD Banjarmasin*



*GOR ITB Bandung*



*Cold Storage Cibitung*

## OUR SERVICES

Spray cold insulation  
polyurethane foam

## POLYURETHANE FOAM PROJECT REFERENCES



*Decorient*



*Gor depati Bahrein Pangkal Pinang, Bangka*



*Taman Safari*



*Novotel Gajah Mada*

**OUR SERVICES**  
Spray cold insulation  
polyurethane foam

## **POLYURETHANE FOAM PROJECT REFERENCES**



*Residential*



*Gor Tomboali, Bangka*

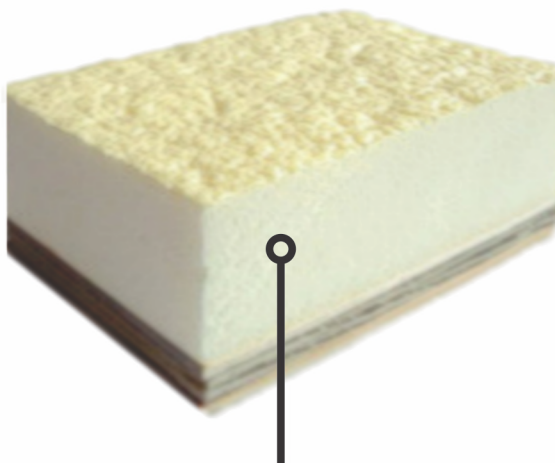
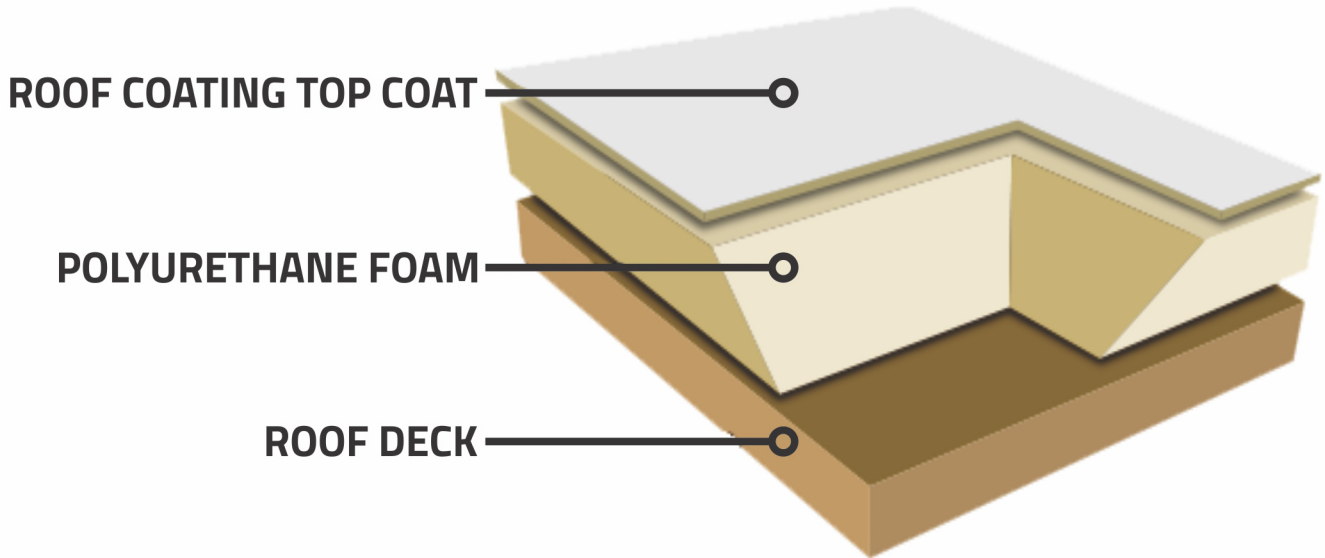


*Karoseri*

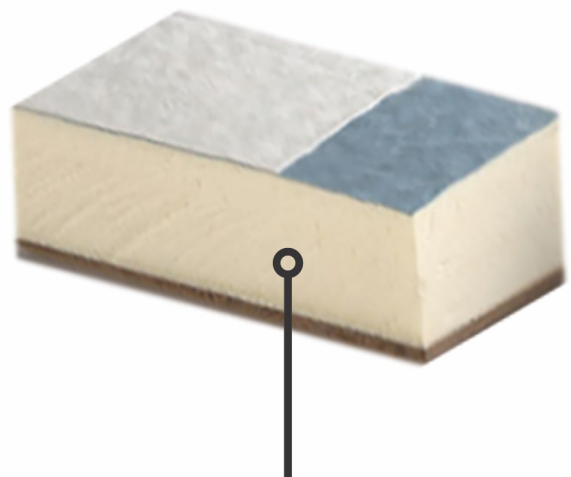


*Mega Glodok Kemayoran*

**POLYURETHANE FOAM APPLICATION METHOD**



**Default Polyurethane Foam**



**With UV protection system**

## OUR SERVICES

### Polyurethane waterproofing

### UV Resistant Waterproofing

Polyurethane waterproofing is a rapid cure, one component, cold applied, moisture-triggered, aliphatic-aromatic pure polyurethane membrane based on unique i-Cure® technology.

- 1-component cold applied
- UV resistant
- High solid content
- > 600 % Elongation
- Low VOC and Low odour
- Ponding water test after 24 hours

### USES

- Waterproofing membrane on exposed flat and pitched roofs both for new construction and refurbishment of old roofs.
- Adheres to various substrates including concrete, cementitious substrates and bitumen sheets

### CHARACTERISTICS / ADVANTAGES

- Pure polyurethane
- One hour rain resistant
- One material for horizontal and vertical surfaces (1st and 2nd layer)

<b>PRODUCT INFORMATION</b>	
<b>Chemical Base</b>	One component, moisture triggered aliphatic-aromatic pure polyurethane
<b>Packaging</b>	25 kg pails with sealed aluminum inner liner
<b>Appearance / Colour</b>	Thixotropic liquid / Standard grey (RAL 7038) and dark grey (RAL 7043)
<b>Shelf Life</b>	6 months from the date of production is achieved when stored in accordance with the above recommendations, in original, unopened and undamaged, sealed aluminium inner liner in dry conditions
<b>Storage Conditions</b>	Store in dry conditions at temperature between +10°C and +30°C.
<b>Density</b>	~1.35 kg/L
<b>Solid Content</b>	~95 % by weight (+23°C/50%r.h.
<b>Flash Point</b>	80 °C (closed cup method)

<b>TECHNICAL INFORMATION</b>			
	<b>Membrane System</b>	<b>Reinforced System**)</b>	
<b>Tensile Strength</b>	4 N/mm <sup>2</sup>	8 N/mm <sup>2</sup>	(ASTM D412)
<b>Elongation at Break</b>	600 %	45 %	(ASTM D412)
<b>Tear Strength</b>	14.5 N/mm	NA	(ASTM D624)
<b>Crack-bridging *)</b>	2 mm (no cracks)	2 mm (no cracks)	(ASTM C836)
<b>Pull-Off Strength</b>	<1.5 N/mm <sup>2</sup>	<1.5 N/mm <sup>2</sup>	(ASTM D4541)
<b>VOC</b>	<250 g/L	<250 g/L	(ASTM D2369)

OUR SERVICES

Polyurethane waterproofing

UV Resistant Waterproofing




The diagram shows a cross-section of a roof waterproofing system. From top to bottom, the layers are: Polyurethane top coat, Primer epoxy, Moisture barrier mortar, and Concrete. A red line with circular endpoints at the top and bottom connects the labels to their respective layers in the diagram.

Primer epoxy

Moisture barrier mortar

Polyurethane top coat

Concrete



A close-up photograph of a person's hand using a roller to apply a white liquid waterproofing membrane to a light-colored surface. The roller has a red handle and a grey roller. The background is a blurred view of a roof structure.

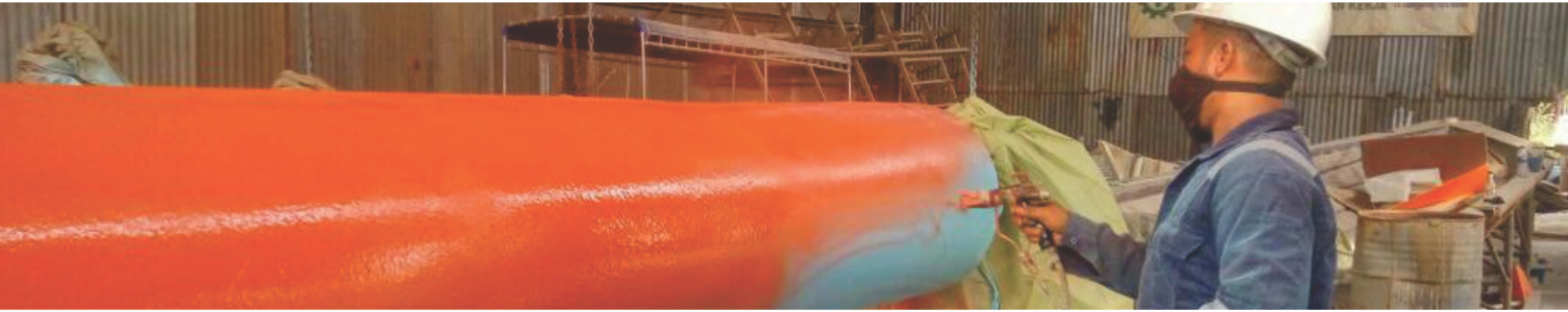
**RAPID CURE  
LOW ODOUR  
PURE POLYURETHANE  
LIQUID APPLIED  
ROOF WATERPROOFING  
MEMBRANE**

## OUR SERVICES

Polyurethane waterproofing

UV Resistant Top Coat

## **POLYURETHANE WATERPROOFING PROJECT REFERENCES**



**Rigid Inflatable Boat Top Coat**



***Legok Stadium, Banten***

## BARRIER CRON

Barrier cron is a two component, inorganic modified acrylic polyurethane light stabilizer hybrid UV protective coating for urethane and urea roofing system.

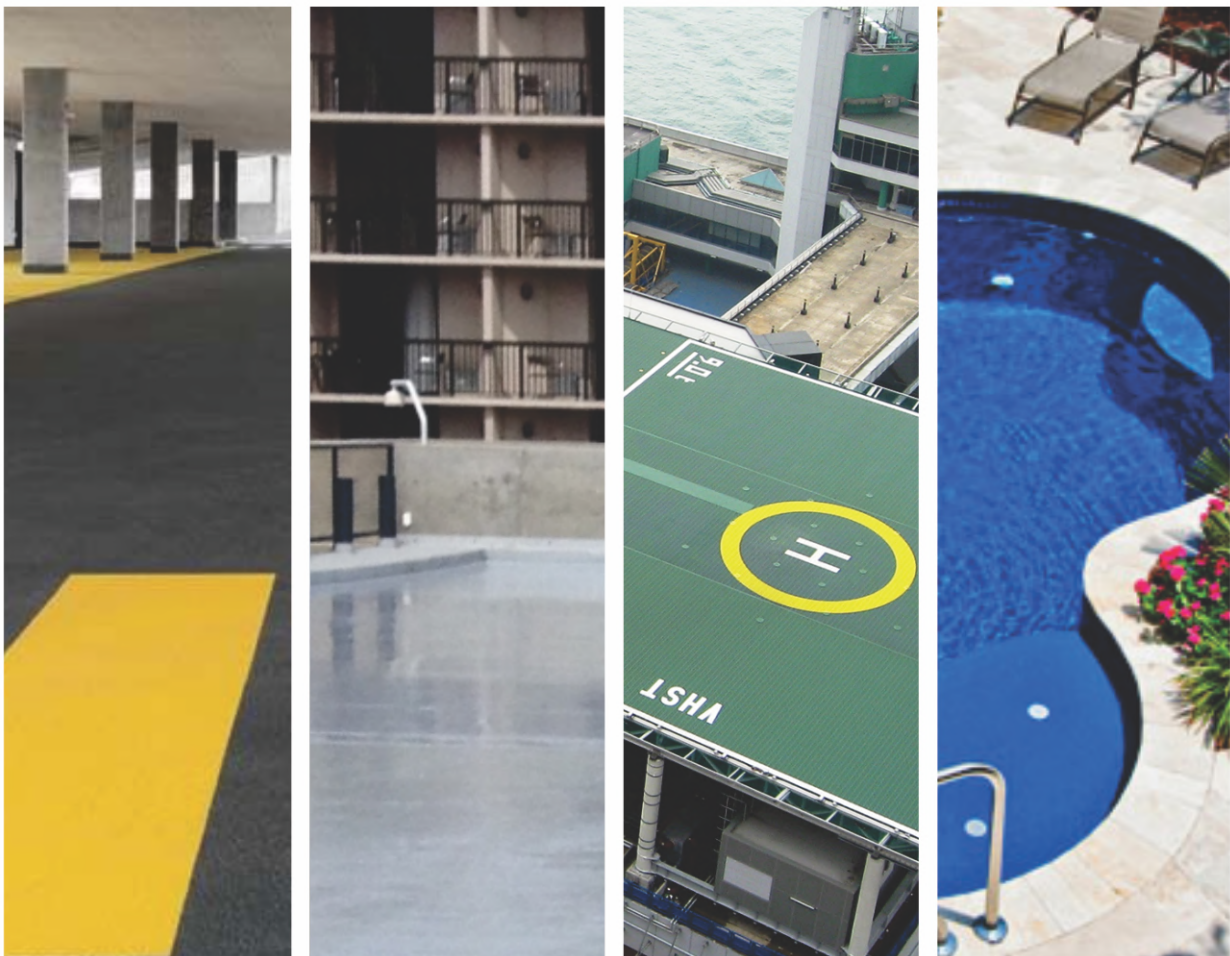
### USES

- UV stable protective coating with excellent weathering resistance
- UV protective coating for UV exposed urethane and urea roofing systems

### CHARACTERISTICS / ADVANTAGES

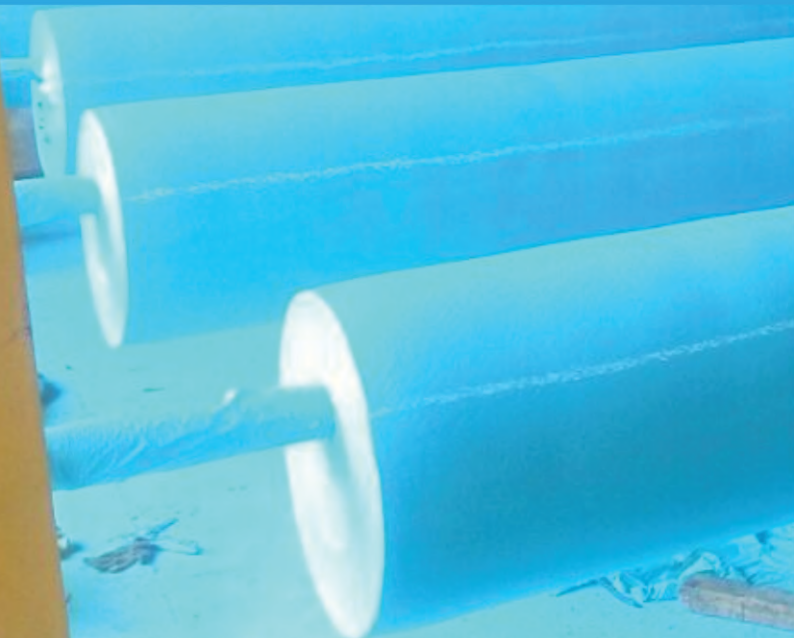
- Good adhesion with urethane and urea waterproofing layer Good waterability by Light stabilizer (HALS : Hindered Amine Light Stabilizer) hybrid polymer better than using light stabilizer additives. Barrier cron has the unprecedented excellent weatherability not to be provided with the additive by the hybrid polymer which incorporated Light stabilizer (HALS) in a molecular frame.
- By ceramic (inorganic), the self-cleaning characteristics were realized.

### Common uses :





**Polyurea Waterproofing**



**UV Resistant Top Coat**



## OUR SERVICES

### Epoxy Waterproofing

Epoxy waterproofing is a two part, rigid, 100% solids, coloured high build epoxy resin based protective coating.

#### USES

- Chemical resistant protective layer on concrete, stone, cementitious mortars and renderings, epoxy cement, epoxy resin based products and steel
- Lining in storage tanks and silos
- Anti-corrosion coating on steel in food processing plants, sewage works, farms, agricultural enterprises, chemical and pharmaceutical facilities and beverage industry

#### CHARACTERISTICS / ADVANTAGES

- Solvent free
- Good mechanical and chemical resistance
- High build
- Impervious to liquids
- Easy to mix and to apply

#### APPROVALS / STANDARDS

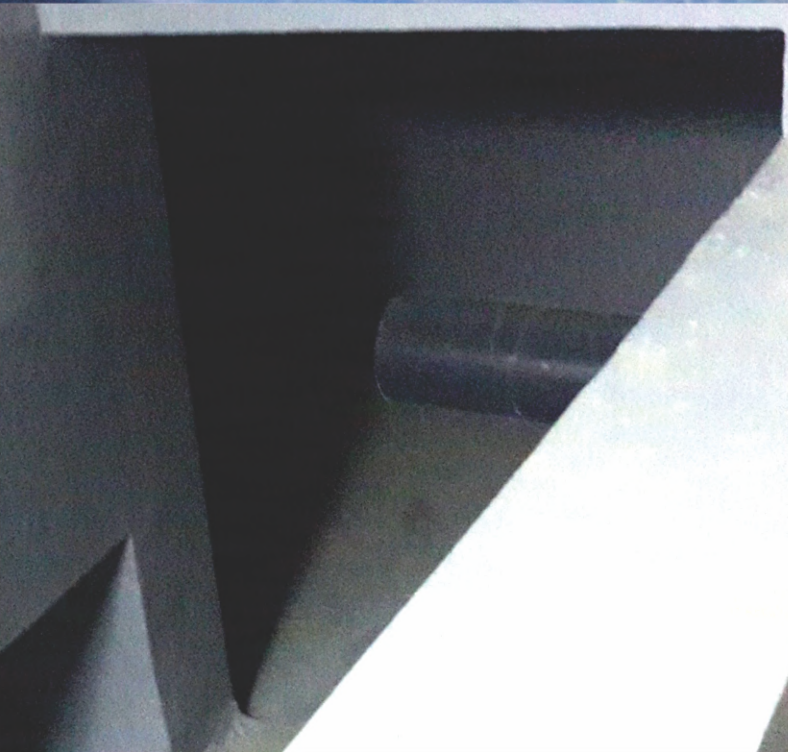
- Coating for concrete protection according the requirements of EN 1505-2/2004.
- WRAS, test report No. M104991, 2011, Contact with water for wholesome purposes according BS 6920-1:2000



### **ECOLOGY, HEALTH AND SAFETY**

**For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.**





OUR SERVICES

Passive Fireproofing  
Intumescent Coating

**NEW**

services

# Intumescent Coating

## Self expanded

## Fire Barrier



non toxic



anti fungal



not damaging  
the base material



fireproof



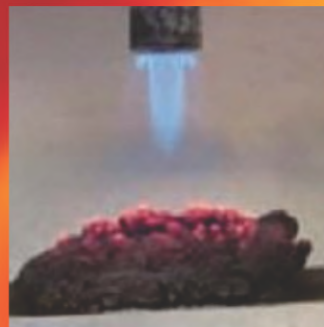
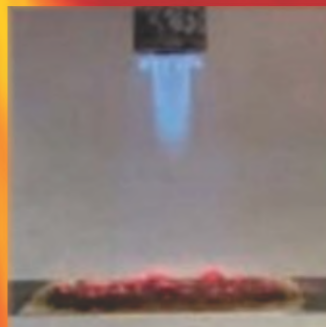
fast curing



eco friendly

**Advantages :**

- ✓ Not hazardous chemicals used
- ✓ made from natural material
- ✓ Easy to use, ready to apply after stirred
- ✓ Fast Dry
- ✓ Does not damage the surface
- ✓ Antifungal & antibacterial
- ✓ No addition hazardous chemicals



**OUR SERVICES**  
**Passive Fireproofing**  
**Intumescent Coating**



**Base material**

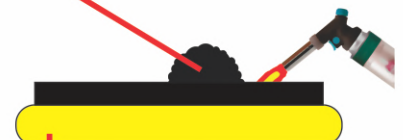


**Intumescent layer**



**60 minute**  
**Curing time**

**Expanding mineral**  
**Layer**



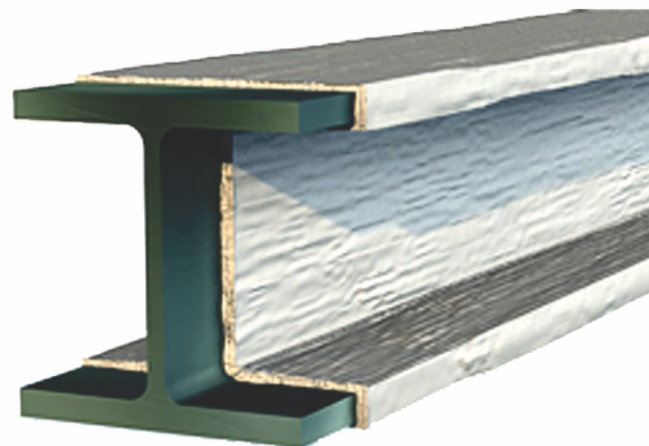
**Base material protected**

Intumescent paint is a refractory coating paint that is applied to protect :

- Iron & steel foundation
- Concrete
- Wood
- Gypsum
- and others

The prime advantage of being able to prevent the spread of fire and protect the basic material completely

Made from safe and environmentally friendly materials



## OUR EQUIPMENT

- Graco Reactor EXP 2, complete sets
- Graco Reactor A20, complete sets
- Graco XM Plural, complete sets
- Graco Plural Dispensing HXP-3, complete sets
- Graco Extreme, complete sets
- Glascraft Super Maxi, Complete sets
- BDF, Complete sets
- Triton, Spray unit for paint, complete sets
- Graco Mercure ES ; 30:1 Air assist stand mount
- Spray unit for paint, complete sets
- Compressor 10 HP
- compressor 5 HP
- tools box ; complete with repair kit
- electric panel box ; 50-100 Amp ; three phase, single phase
- Graco Mercure1200 ; Airless spray
- Etc. . . .



## OUR CLIENTS



- PT. Porta Camp Indonesia
- PT. Trust Building Indonesia
- PT. Ricwil Indonesia
- Toppan Cosma Inc
- PT. Global Autopart
  
- Indo Tiga Buana
- Trijaya Union
- Optik Melawai
- Berkat Cemerlang Abadi
- PT. Bina Arta
  
- CV. Megatama Karya
- PT. Toyota Motor Manufacturing Indonesia Astra
- PLTU - Pangkalan Susu- Sumatera Utara
- PT. Trans Tioma
- PT. Redstar Revelation
  
- PT. Estima Reka Sakti
- PT. Karya Tugas Paramitra
- Guangdong Power Engineering Corp
- PT. Mutu Garansi Prima
- PT. BAM Decorient Indonesia
  
- PT. Paramita Bangun Sarana
- PT. B-Generasi Asia
- PT. Mutiara Fibrindo
- PT. Trust Building Indonesia
- PT.Waskita Karya

- CV. Mitratama Prima
- PT. Cipta Rupa Pertama
- Acoustic Creation
- PT. Trimega Insulasi Karya
- PT. Paramita Bangun Sarana
  
- PT. Probesco Disatama
- CV. Bangun Bumi Pusaka
- CV. Cahaya Mandiri Bangun Buana, sport center
- Raja Kontainer
- PT. Central Auto Comperindo
  
- PT. Harapan Semangat Bersama
- CV. Indepth Interior Spray
- PT. Bangkit Jaya Makmur
- PT. Emway Globalindo
- Slumberger Indonesia Exxon Mobile Cepu
  
- PT. Multi Fabrindo Cilegon
- PT. Cipta Rupa Pertama
- Menara Astra Sudirman
- Neo Soho Jakarta Aquarium
- Sinarmas Oleo Chemical Dumai
  
- Leighton & Total Bangun Persada joint operationn (LTJO)  
New australian embassy patra kuningan jakarta
- PT. Nippon Panel Indonesia
- CV. Cisanggarung Putra Mandiri
- Etc . . .



## PT. Wahana Indoko Pratama

### Main office :

Ruko Golf Lake Residence Venice  
Blok B no.18-19 RT/RW 014/011  
Jln. Kamal Raya Outer Ring Road  
Kelurahan Cengkareng Timur  
Kecamatan Cengkareng  
Jakarta Barat 11730  
Tel : +6221 229 59 888

### Workshop :

Jl. Iskandar Muda No. 83 Sewan  
Rawakucing, Kec. Neglasari  
Tangerang 15129  
Tel. : +62 21 553 2525  
Fax. : +62 21 5579 0410