INNOCHEM WORLD
EXPLORE THE FULL STORY OF INNOCHEM

Today's coating solutions

COLD APPLIED TAPE

SHRINKABLE SLEEVE

HYBRID POLYUREA

COATING EQUIPMENT

INNOCHEM
INDUSTRIAL PIPELINE COATING COMPANY
Innochem offers a wide range of high performance coatings.

PIPELINE COATING

• REHABILITATION

• GIRTH WELD COATING

• FITTINGS

• NEW GENERATION COATING
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Innochem is an innovative global brand that exceeds industry standards for quality, design and technology while exceeding its customers’ expectations.

Company name: Innochem Co., Ltd.
Founding year: 2011
Place of business: Pyeongtaek-city, South Korea
Range: Pipeline coating, Rehabilitation, Girth weld coating, Fittings, New generation coating
Production sites: Pyeongtaek-city, South Korea

Innochem Co., Ltd., a privately owned company, was established the 4th of April 2011. Innochem products are manufactured using the Co-Extrusion process, producing a polyethylene butyl rubber coating system. The Co-Extrusion technology has over 40 years of proven technology in the coating industry, offering the highest degree of uniformity and inner cohesive strength. Innochem offers a wide range of high performance coatings, utilizing the brand name Innowrap®. We design, manufacture, and offer full technical support for all projects. Approved test results from the world-recognized associations (AWWA, DVGW, NACE, etc.), confirms that the Innowrap® coating system is approved for all applications regardless of the size or conditions. All products are produced at our South Korea, ISO certified facility. Trained personnel monitor all products to ensure quality and uniformity. We are committed to producing a quality, environmentally friendly product for the global market, by continuously investing in research and product development to meet Today’s Coating Solutions.
INNOCHEM WORLD

Plant Overview

Welcome to ISO certified facility

ISO 9001:2008
Certi No: GK-1964-QC

ISO 14001:2004
Certi No: GK-1964-EC

DISTRIBUTION CHANNEL

Today’s coating solutions

www.innochem.pro

Pyeongtaek-city, South Korea
Welcome to ISO certified facility
Innochem, ISO certified facility, operates production at the highest quality standard, ensuring product reliability.
2011
Innochem Co., Ltd. our first manufacturing facility in Pyeongtaek-city.

2013
Surpassed test result on AWWA C209-00 for:
Innowrap 700-23 Liquid adhesive
Innowrap 710-35 Joint wrap coating

2014
Achieved certificate of authorization for:
Innochem R&D Center, pursuant to the Basic Research Promotion and Technology Development Support Act of the Republic of Korea
Korea Industrial Technology Association (KOITA)

2014
Achieved ISO certified facility for:
ISO 9001:2008 Quality Management System
ISO 14001:2004 Environmental Management System

2014
Achieved DIN EN 12068 B-30 for:
Innowrap 700-23 Liquid adhesive
Innowrap 710-35 Joint wrap coating
2014
Selected by KOGAS Corporation for:
Cooperative Enterprise for R&D

2015
Achieved DIN EN 12068 C-50 for
Innowrap 700  Liquid adhesive
Innowrap 750  3Ply Double adhesive inner layer
Innowrap 740  2Ply Outer layer

2016
Developed future coating solutions
Tri-Fusion System as following:
Double adhesive inner layer
Liquid spray coating outer layer
Patent protected

2016
Surpassed test result on AWWA C214-00
Innowrap 700-23 Liquid adhesive
Innowrap 730-20 Inner layer tape black
Innowrap 740-30 Intermediate layer tape grey
Innowrap 740-30 Outer layer tape white

2017
Achieved occupational health and safety management system
OHSAS 18001 : 2007
Co-Extrusion process is a chemical formulation that creates a molecular bonding between the butyl rubber adhesive and polyethylene, resulting in a single-element coating. The single element coating is a 30 year proven technology, a continuation of the US patent that shows surpassed requirements of DVGW, AWWA, ANSI, ASTM, API, NACE, NAPCA and other International standards.

Made in Korea
A brand that stands for state of the art product in 21st century with high performance, precision and attention to detail

All Innochem products are designed and manufactured in South Korea ISO certified facilities. We make sure every master roll produced is inspected though government certified Innochem R&D center.

One Management Message, One Statement

Our message of an innovative global brand that exceeds industry standards for quality, design, and technology while exceeding customer’s expectations.
All Innochem’s products are directed towards delivering on our slogan, “Today’s Coating Solutions”, and are found on Innovative Technologies, Engineering and Customer Service.

LEADING THRU KNOWLEDGE

Innochem’s engineering team is lead by NACE certified inspectors. It has been received impressive feed back from prospect and current clients. Innochem engineering team offers an excellent balance of project design, environmentality, functionality, applicability and quality.

INNOVATIVE TECHNOLOGIES

We are always one step ahead, leading technological developments. Innochem introduced to the market, INNOWRAP total corrosion prevention system. Innochem transformed the domestic corrosion prevention products by introducing high performance co-extrusion process to the government owned water, oil and gas market in Korea.

SUPERIOR PERFORMANCE

“Superior Coating Solutions”

It offers a series of coating systems designed to fit on in-field application of new construction pipes to reconditioning of existing pipelines. It can additionally be applied over existing tape wrapped system when reconditioning is needed. It offers today’s coating solutions for efficient, less labor force and cost-effectiveness.
INNOCHEM WORLD

Customer’s Request Always First

The new pipeline/reconditioning market needs certified coating standards, specifications and quality standards to ensure long-term coating performance and safety of the pipeline to the end user. Therefore, the purpose of new coating/reconditioning is to make sure that the newly introduced pipeline coating is an effective coating solution.

New coating/reconditioning of pipeline is a global issue that is being addressed by engineers, applicators, operators and end-user of pipelines. The major challenge in the new coating/reconditioning market and industry is the awareness of the pipeline weakness to corrosive environment and undertaking to an economical, fast, and field friendly system. Major new pipeline/reconditioning projects are taking place in the industry daily, covering the world market.
In order to ensure the highest quality products, the company strictly follows the ISO 9001:2008 International quality system authentication standard. Our R&D facility is equipped with advanced inspection equipment, inspecting raw materials to products leaving the manufacturing facility. Inspections include the principle of spot checking as well as constant batch checking. Our strict quality standards are enforced by all employees and are a source of pride to our company.
Innowrap®’s Coating System is a multilayer polyethylene and butyl rubber coating system used for protecting the external surface of pipelines for oil, gas, petrochemical, waste water underground, and over head pipeline. Installed Innowrap® coating system provides outstanding adhesion value and elastic performances that is highly adaptive to forces caused by changes in temperature and severe soil stresses. Furthermore, it is a UV and fungus resistant product offering long term solutions.

It offers a series of coating systems designed to fit the field application of new construction pipes to reconditioning of existing pipelines. It can additionally be applied over existing coatings when reconditioning is needed. It offers today’s coating solutions for ease of application, less labor force, and cost-effectiveness. The system meets or exceeds the requirements of DVGW, AWWA C209 & C214, ANSI, ASTM, API, NACE, NAPCA and other International standards.
FEATURES & BENEFITS

- Manufactured using the proven Co-Extruded process resulting in the highest degree of inner cohesive strength.
- 100% adhesion in 24 hours, liquid adhesive to steel and liquid adhesive to the inner coating butyl rubber.
- Adhesive is designed to smear and lock resulting in compression above ground, not relying on soil compression.
- UV inhibitors are included for additional external protection.
- Liquid adhesive formulation is designed to work in conjunction with the inner coatings adhesive, resulting in an effective prevention of stress cracking.
- Designed to absorb impact without cracking.
- Product formulation offers the industry’s lowest water vapor penetration. Total adhesion system shows reduced requirements for cathodic protection. Co-Extruded process results in zero delamination and product uniformity. Manufactured to meet or exceed industry standards.
- Designed to meet any corrosion coating project.
- Features roll consistency - no lapped rolls.
- Assistance with proper application procedures for guaranteed results.
INNOWRAP® 700 - Liquid Adhesive Coating

IW #700 is the first essential part of the Innowrap cold applied coating system. It is highly compatible with the butyl rubber formulation of the Co-Extruded inner coating that provides a smooth uniform coating surface. The never cure tack surface of the Innowrap 700 provides ease of application and complete adhesion of the inner layer to steel and butyl rubber. It can be applied using the following methods: brush, rollers, spray and etc. Available in 1 gallon cans, 5 gallon cans and 55 gallon drums. Innowrap 700 is designed to be used on any properly prepared pipe surface. (For more information, see Application Procedure Booklet) Innowrap 700 liquid adhesive coating is recommended for use with the Innowrap cold applied coating systems.

INNOWRAP® 730 (In-plant | Rehabilitation) - Inner Layer Coating

IW #730 is a two component Co-Extruded coating consisting of polyethylene and butyl rubber adhesive. It is designed and formulated to work in conjunction with Innowrap 700 liquid adhesive coating. This forms a corrosion barrier for our Innowrap coating system. Material is available in various sizes and thicknesses.

INNOWRAP® 750 (Double Adhesive) - Inner Layer Coating

IW #750 inner layer is a two component Co-Extruded coating consisting of a polyethylene inner layer coated on both sides with butyl rubber adhesive, resulting in a double adhesive for self-adhering results. It is used in severely corrosive environments, submarine pipelines as well as high mechanical stresses. Innowrap 750 inner layer is recommended for all pipelines that need additional corrosion protection. It allows for a greater cohesive adherence between liquid adhesive, butyl and adhesive of the outer layer. Its quality performance is certified under DIN 30672 and EN 12068 Class C-50 standards. Material is available in various sizes and thicknesses.

INNOWRAP® 740 (In-Plant | Rehabilitation) - Outer Layer Coating

IW #740 is a Co-Extruded outer coating of polyethylene and butyl rubber specifically engineered for mechanical protection layer. It provides protection to the inner layer (corrosion protection) from potential hazards due to backfill operations and soil stresses; as well as protection from chemical, biological attack and ultra violet light. Material is available in various sizes and thicknesses.

INNOWRAP® 710 (Hand wrapping) - Joint Coating

IW #710 is a Co-Extruded conformable joint coating consisting of polyethylene and butyl rubber adhesive specifically designed for the corrosion protection of field joints, ells, tees, valves and other pipe fittings. It is designed to be used by hand application or hand wrapping machines. IW #710 is certified under DIN 30672 and EN 12068 Class B-30 standards.

INNOWRAP® 711 (In-Plant / Hand wrapping) - Joint Coating

IW #711 is a Co-Extruded conformable joint coating consisting of polyethylene and butyl rubber adhesive designed for hand coating of field joints, ells, tees, valves and other pipe fittings. The high mechanical enhancement and pliable strength, allows it to be used as a outer layer for IW #710 joint coating. This UV stabelized coating is approved for both in ground and above ground joint fittings.
INNOWRAP® 720 (With release liner) - Joint Coating

IW #720 is a Co-Extruded self-sealing pressure sensitive joint coating for field joints, ells, tees, valves and other pipe fittings. It is a cold applied conformable coating consisting of a polyethylene backing and butyl rubber adhesive. The butyl adhesive is extremely tacky and aggressive promoting the strongest cohesive overlap bonding. The bonding takes effect virtually in minutes. It is recommended to use on longitudinal and spiral weld pipe where uneven elevation is exist. The butyl adhesive is engineered with never cure technology allowing for an even flow, filling the surface voids and a complete bond to the pipe surface.

INNOWARP® 790 - Filler Tape

IW #790 is a one component extruded mastic like butyl material. The material is used as an underlay for coatings to fill voids throughout liquid adhesive coated ells, tees, valves, flanges, couplings, weld seams and other irregular shapes. It is used in cold applied coating systems as well as heat shrinkable products. Its unique characteristics of elastomeric formulation are designed to have excellence in conformability and transition for filling a seamless surface. IW #790 is extremely flexible in wide range of temperatures and application conditions.

INNOWRAP® 780 - Tri-Fusion System

The IW #780 Tri-Fusion System consists of a coating of liquid adhesive IW #700 applied to a properly blasted pipe surface, an inner corrosion protection, IW #750 double adhesive an an outer protection, a two component spray IW #780 Hybrid polyurea.

INNOWARP® 770 - Rockshield

IW #770 is a one component Co-Extruded outer covering of polyethylene. It provides additional mechanical protection for coated pipe isolating potential hazards due to backfill operations and soil stresses; as well as protection from chemical and biological attack. Rockshield is available in perforated and non-perforated styles.

PORTABLE COATING MACHINE - All in One Wrapping & Spray Equipment

Innochem's portable coating machine is an automated coating equipment designed to meet the proper application procedures for the entire Innochem coating systems. In a cost-efficient and convenient manner, it will allow a coater the opportunity to offer two ways to apply the Innochem coating systems. First, pipe can be coated in a semi-closed structure at the jobsite, then lowered into the ditch. In this case, it will save patch & repair and transporting damages. Second, it can also be a permanent in-plant structure where pipe would be coated then shipped to the jobsite.

QUICK INNOWRAP - Portable Hand-held Wrapping Tools

The “QUICK INNOWRAP” is a portable hand held tape wrapping tool used to apply cold applied tape coating to the outside of pipes to aid in the prevention of corrosion. The machine will accept 1.5 inch and 3 inch tape core sizes. It can apply tape widths of 2 inches up to 12 inches. Portable hand wrapping tool comes with two different sizes.
INNOCHEM WORLD
Innowrap Application Procedures

Pipeline Coating

Steel Pipeline

Surface preparation - SSPC.SP6 / NACE #3 Commercial Blast

Liquid adhesive coating - Corrosion protection

Inner layer tape wrap coating - Corrosion protection

Outer layer tape wrap coating - Mechanical protection
Joint Coating

Extruded polyethylene gas pipe

Surface preparation - SSPC.SP6 / NACE #3 Commercial Blast

Liquid adhesive coating - Corrosion protection

Filler mastic tape application - Seamless coating

3-ply double adhesive inner layer tape application
Corrosion protection

2-ply outer layer application - Mechanical protection
INNOCHEM WORLD
Future Coating Solutions: Tri-Fusion System

ONE SEAMLESS COATING SYSTEM ALL THE WAY

DISCOVERY

To meet the demanding industry standards for a coating that has performance, ease of application, environmentally friendly and economical, Innochem spent years developing such a coating that will meet or exceed the toughest standards; Tri-Fusion System®.

The Tri-fusion system® consists of a liquid adhesive coating applied to a properly blasted pipe surface, an inner corrosion protection of double adhesive and an outer mechanical protection, a two-component hybrid polyurea spray. The Tri-fusion system® is a combining of 3 entities into a single element coating. Using the reliable and proven Co-Extrusion process, the Innochem technical team developed the process of combining the butyl rubber corrosion coating and hybrid polyurea liquid high performance mechanical coating and fusing the entities for a total amalgamation resulting in an encapsulated seamless single element coating.
FEATURES & BENEFITS

Minimum pipe profile & surface preparation

Excellent Adhesion and corrosion resistance
  Seamless coating
  Fast cure time
  Zero VOC

Excellent abrasion resistance

Excellent impact resistance

Flexible coating

Excellent chemical & water resistance

UV Stabilization

Excellent cathodic disbondment result

Very low oxygen permeability

High temperature protective coating
Pipeline Coating

Steel Pipeline

Surface preparation - SSPC.SP6 / NACE #3 Commercial Blast

Liquid adhesive coating - Corrosion protection

Inner layer tape wrap coating - Corrosion protection

Outer layer hybrid polyurea spray coating - Mechanical protection
**Joint Coating**

- Extruded polyethylene gas pipe
- Surface preparation - SSPC.SP6 / NACE #3 Commercial Blast
- Liquid adhesive coating - Corrosion protection
- Filler mastic tape application - Seamless coating
- 3-ply double adhesive inner layer tape application
- Corrosion protection
- Outer layer hybrid polyurea spray coating - Mechanical protection
INNOCHEM WORLD
Reasons to Believe

Quality Management

ISO 9001:2008
ISO 14001:2004
R&D Authorization Certificate
Approved Exporter
Main-Biz Certificate
Inspection Certificate
All Innochem products are produced at our modern South Korea, ISO certified facility. Every product batch is tested and certified by our state of the art Innochem R&D Center. All Innochem coating system meets or exceeds the requirement of DVGW, AWWA C209 & C214, ANSI, API, NACE, NAPCA and other International standards.

Qualifications & Certifications

DIN EN 12068 B-30

AWWA C209-00

DIN EN 12068 C-50

AWWA C214-00

KSD 8500

ISO 21809-3
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