

PU

延性鑄鐵管

PolyUDIP-PW/PolyUDIP-WL



SHIN NAN

<http://www.snpipe.com> e-mail: sales@snpipe.com.tw

PU

PolyUDIP-PW

PolyUDIP-WL

◎ 延性鑄鐵管的優點：

延性鑄鐵管已普遍被接受且廣泛應用在各領域，
這個趨勢歸因於以下的事實：

- 球狀石墨結構的延性鑄鐵具備優異的機械性質。
- 延性鑄鐵管不僅能抗高內壓，而且除了能實質上承受所有土壤及卡車的負荷外，亦容許在彎曲和扁形時不破裂的特性。
- 具可撓性及縱向伸縮性之優越接頭，包含橡膠密封墊可適應進一步彎曲及提高安全的界限。
- 多樣的外部防蝕保護，可使用在各種不同的埋設土壤環境。
- 施工、切管及分歧容易，可在雨天或地下水湧出的惡劣環境下施工。
- 使用年限長，破損率及漏水率低，鋪設及維護成本低。

◎ PU內襯之特性：

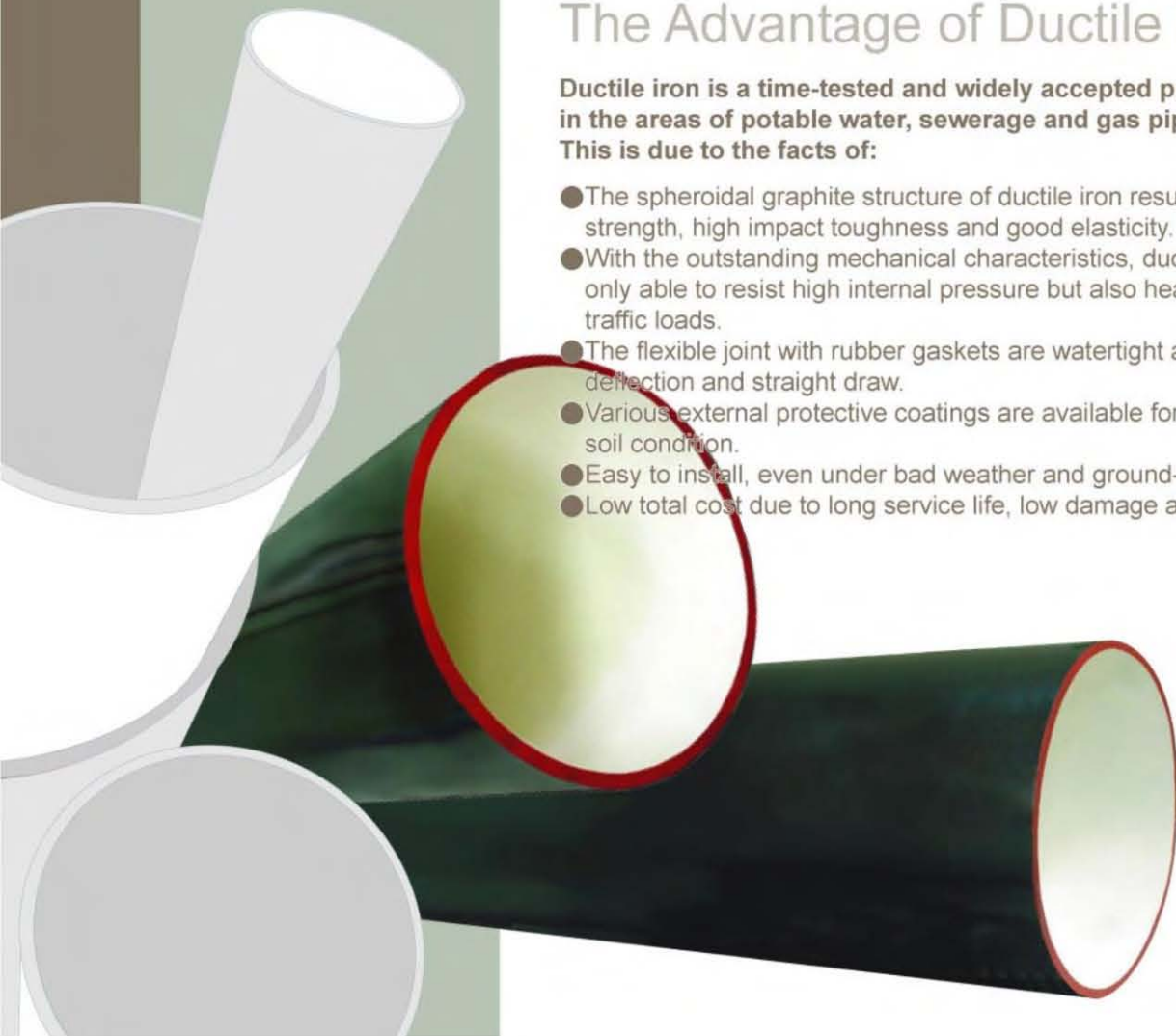
PU內襯具有高附着力及以下的特色：

- 表面光滑如鏡因而可防止沉澱物及殘餘物的累積，具有低阻流係數。
- 內襯PU十分堅韌，可忍受20%的彎曲變形，搬運過程不易損害。
- 快速乾硬，短時間可重覆塗裝至所需厚度，修補容易。
- 堅固附著性不論是鑽孔或安裝配件不易剝落，鋪設上完全沒有問題。
- 不含有毒物質及揮發性氣體，不會污染環境。
- 高膜厚塗層對大部份侵蝕性的流體具抗性，包括因微生物所產生之酸性腐蝕。

The Advantage of Ductile Iron Pipes

Ductile iron is a time-tested and widely accepted pressure pipe material in the areas of potable water, sewerage and gas pipeline applications. This is due to the facts of:

- The spheroidal graphite structure of ductile iron results in high tensile strength, high impact toughness and good elasticity.
- With the outstanding mechanical characteristics, ductile iron pipes are not only able to resist high internal pressure but also heavy external earth and traffic loads.
- The flexible joint with rubber gaskets are watertight and allows angular deflection and straight draw.
- Various external protective coatings are available for all kinds of buried soil condition.
- Easy to install, even under bad weather and ground-water condition.
- Low total cost due to long service life, low damage and maintenance free.



◎ 內襯PU延性鑄鐵管的應用：

興南延性鑄鐵管的優點與加拿大Madison Chemical Industries Inc.之PU內襯塗裝的特性結合是興南管材的獨到之處：

- 自來水用內襯聚胺酯延性鑄鐵管 (PolyUDIP-PW)，係延性鑄鐵管內襯適合飲用水衛生標準之聚胺酯 (Corropipe II PW)，塗襯厚度最少為1000 μm ，管外為瀝青漆防蝕保護塗層，必要時管外可使用加強防蝕保護之PE套袋 (PE Sleeve)。各類配套管件 (fittings) 齊全，標稱管徑75 mm ~ 2400 mm，水壓試驗可達 2.5 MPa ~ 6.0 MPa。
- 污水用內襯聚胺酯延性鑄鐵管 (PolyUDIP-WL)，延性鑄鐵管內襯耐磨耗、抗腐蝕之聚胺酯 (Corropipe II Wasteliner)，標準塗襯厚度1000 μm ，可抵抗 pH 1 ~ pH 14之家庭污水，管外為鋅加環氧樹脂漆 (Epoxy) 防蝕保護塗裝。標稱管徑100 mm ~ 2000 mm，各類配套管件 (fittings) 齊全，適用於重力流或壓力流污水管線系統。
輸送特殊工業廢水用PU內襯及管外加強防蝕保護用PU塗層請洽業務人員。

The Internal Polyurethane Lining

The polyurethane lining have a tightly adherent property with the following advantages:

- Smooth interior surface having a Hazen-Williams "C" coefficient of approximately 150 or equal to a Manning "n" coefficient of 0.010 save pumping energy and possess a higher flow capacity rate.
- PU lining is hard, yet flexible able to resist damage during shipping and handling, and can withstand a 20 % deflection without cracking.
- PU lining cures instantly, can be applied to any desired thickness and is easily repaired before installation.
- PU lined pipe can be cut, drilled and fitted with accessories in the field without the lining material scale off.
- PU cured coatings is non-toxic and solvent-free, so called environmentally friendly.
- PU lining is resistant to all chemicals commonly found in municipal and industrial sewers including H_2SO_4 , H_2S , HCl, NaCl, NaOH and bacterial-acid corrosion cycle common to low velocity sewers.

Polyurethane lined Ductile Iron Pipes

Combination of the advantages of Shin Nan Ductile Iron Pipes with polyurethane of Madison Chemical Industries Inc. become an unique pipe products of Shin Nan, and are ideal for the applications in the areas of potable water, sewerage and gas.

- Shin Nan PolyUDIP-PW for Potable water are made from Ductile Iron Pipes, internally lined with solvent-free and hygienic polyurethane (Corropipe II PW), suitable for potable water. PU lining is min 1000 μm in thickness, and outside coated with protective bitumen, PE sleeve is also available upon request. Standard length 6 m, size from 100 mm to 2000 mm confirm to BS EN 545, ISO 2531. Water test pressure rating from 2.5 MPa to 6.0 MPa. A complete range of fittings are available for the pipeline system.
- Shin Nan PolyUDIP-WL for sewerage application are made from Ductile Iron Pipes, internally lined with chemical and abrasion resistant polyurethane (Corropipe II Wasteliner), thickness 1000 μm min. Outside coated with zinc plus epoxy. Standard length 6 m, size from 100 mm to 2000 mm, confirming to BS EN 598. Full range of fittings are available, excellent for pressure or gravity sewer systems. Special coating and lining are also available upon request.

興南鑄造廠股份有限公司

SHIN NAN CASTING FACTORY CO., LTD.

公 司：台南市704公園路435號

Head Office 435, Kung Yuan Road, Tainan 704, Taiwan, R.O.C.
Tel:886-6-2513646 Fax:886-6-2514898

台北辦事處：台北市106大安區永康街23巷19號

Taipei Office 19, Lane 23, Yung Kang Street, Ta An Dis., Taipei 106, Taiwan, R.O.C.
Tel:886-2-23412580 Fax:886-2-23943355

永 康 廠：台南縣710永康市鹽洲里洲尾街72號

Yung Kang Plant 72, Jou-Wei Street, Yen-Jou-Li, Yung Kang City, Tainan Hsien 710, Taiwan, R.O.C.
Tel:886-6-2534185 Fax:886-6-2533554

山 上 廠：台南縣743山上鄉明和村北勢洲90號

Sun Shine Plant 90, Pei-Shu-Jou Ming-Ho Village, Shan-Shang Hsiang, Tainan Hsien 743, Taiwan, R.O.C.
Tel:886-6-5781940 Fax:886-6-5781915