

## Experience

The epoxy materials used in Interchem R were originally formulated in Europe over 15 years ago and have been extensively used all over the world since. Epoxy mortar technology is a proven and accepted method of repairing concrete structures and its longevity in the market is a testament to its success.

Interchem R is the preferred choice over cementitious rebuilds in aggressive sewer environments because of its excellent resistance to chemicals and high resistance to abrasion and wear.

Protecting your underground structures against gas attack is the key to extending the life of your valuable assets. But not all structures will have the same level of deterioration. The appropriate treatment and protection will depend on the overall condition of the structure. As a specialist and experienced pipeline and sewer renewal contractor, Interflow can inspect and assess the condition of your sewer assets and provide you with the appropriate solution.

Interflow has applied Interchem R to rebuild deteriorated surfaces of access chambers, inspection chambers, box sections, benching, sections of large diameter sewers, and vortex drop structures of many different sizes, depths and in challenging conditions and locations. Whether your asset is a 2metre deep manhole, an access shaft 33metres deep or a 3metre high chamber 30 metres below the surface, Interflow has the personnel, products, and expertise to do the job.



**Interflow**<sup>®</sup>  
*Leaders in Pipeline Renewal*

### Interflow Pty Limited

#### Head Office

17 Amax Avenue  
Girraween NSW 2145, Australia

**Ph** +61 (0)2 9631 2444

**Fax** +61 (0)2 9636 5475

**Email:** [mail@interflow.com.au](mailto:mail@interflow.com.au)

**Website:** [www.interflow.com.au](http://www.interflow.com.au)

#### Regional offices

Sydney **Ph:** 02 9631 2444

Melbourne **Ph:** 03 9330 1660

Brisbane **Ph:** 07 3890 4554

Perth **Ph:** 08 9221 1988

Auckland **Ph:** +64 (0)9 415 3084

## Interchem R

Renewal of Deteriorated Access  
Chambers and Structures



# Interchem R

Access chambers and underground sewer structures that are highly deteriorated from gas attack may also have some structural loss. These structures require more than just a protective coating. Surface repair and full structural restoration is necessary.

The Interflow suite of coating products, Interchem, was developed for in-situ protection and rebuild of sewer structures without the need for costly and disruptive civil works.

Interchem R (denoting Rebuild) is a high-build general purpose epoxy mortar used to rebuild severely gas attacked surfaces and restore the structural integrity of the access chamber.

Interchem R is a three stage rebuild. The core of the coating is a strong 20mm thick epoxy mortar sandwiched between a base of high bond epoxy primer and a protective epoxy glaze top-coat. The finished product is strong, tough, hard-wearing, and resistant to chemical attack.

Interchem R is applied by brush and trowel making application easy. The coating is specifically suited to application on common mineral substrate materials such as concrete, limestone masonry and brickwork. Provided there is man-entry access there is no restriction on the type, size, shape, and depth of structure which can be treated with Interchem R.



## The Epoxy Advantage

Interchem R is an epoxy based product. The advantages of epoxy compared to conventional cementitious products are:

- Excellent chemical resistance
- Higher resistance to abrasion
- Higher resistance to cracking

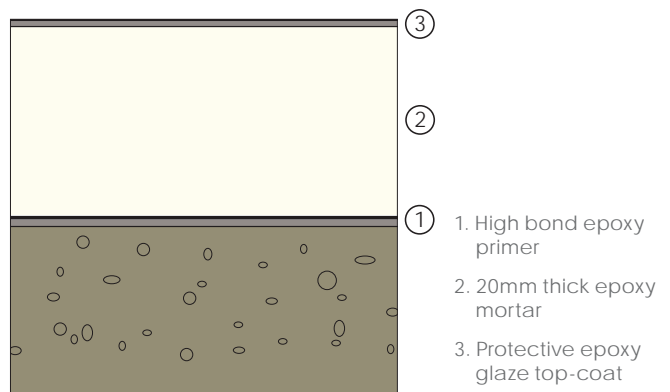
This means longer service life and a high quality restoration specifically suited to harsh sewer applications.

## Interchem R – Offering the Optimum

The three layer epoxy construction of Interchem R consists of:

- An epoxy primer providing strong adhesion to the substrate
- 20mm thick epoxy mortar providing high strength structural rebuild
- Epoxy glaze top-coat providing additional surface protection against chemical attack and abrasion.

With three layers of construction you get the best of all worlds.



## Easy To Apply

Interchem R exhibits qualities that make it suitable for use on a wide variety of sewer structures and surfaces. The epoxy resin components are supplied to site in pre-portioned sealed tubs making mixing quick and easy. Interchem R is

- easy to apply making it safe and low risk
- applied by trowel to where it is needed so difficult-to-reach areas can be coated
- suitable for localised patch repair

## The Environment

Interchem R improves the environment by sealing structures, thereby reducing infiltration into the sewer network and keeping the sewage inside the structure.

By restoring the structural integrity of deteriorated surfaces, Interchem R can potentially reduce the risk of environmental damage caused by the collapse of deteriorated sewer structures.

Being epoxy based Interchem R is resistant to chemicals and less likely to crack in the presence of ground movement. This translates into a longer expected service life compared to cementitious repair methods.

Epoxy products such as Interchem R are widely used in sewer applications throughout the world and have no adverse effect on the environment. The resins used are solvent free and non-toxic.



## Community

Interchem R can cost effectively rebuild the deteriorated surfaces of sewer structures before it becomes too late and extensive structural rectification is required. Any subsequent structural repairs are likely to require expensive civil works and cause significant disruption to the community.

The Interchem R restoration process is completely non-disruptive and applied in-situ. The size of the foot-print on site is small. This means there is less disruption to local traffic and residents.

In most circumstances the installation can be performed with flow in the pipe so there is no interruption of the sewer service and bypassing is usually not required.

## Safety

Interflow strongly encourages safe work practices and protecting the safety of the community and our workers is a priority.

Interchem R has been developed with this in mind. With minimal installation machinery required on site, and with the work being performed by operators below ground, the process is low-risk, quiet, and safe.

The resin components are supplied in pre-portioned sealed tubs making resin mixing and disposal easier, cleaner and safer.



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