



# Polyurethane Injection Systems

**PURIN<sup>®</sup>**

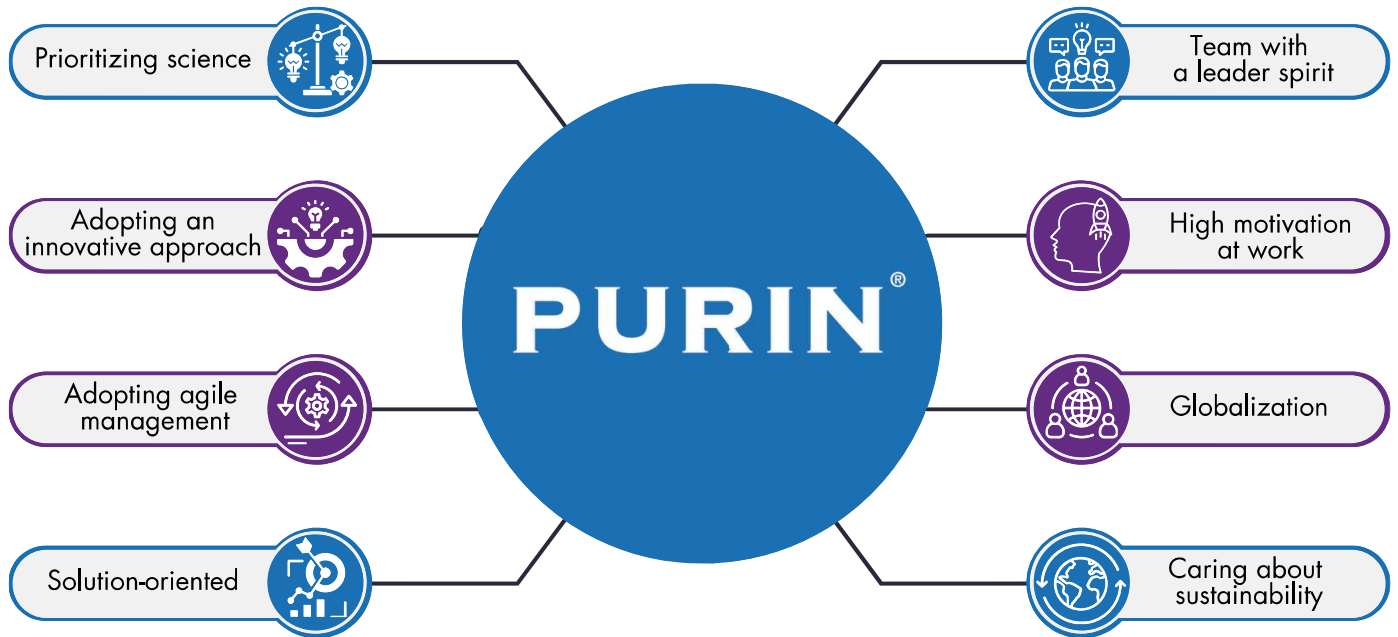
# TARVIX

by PURIN

Water flows into the building through cracks that occur during or after construction. The water ingress can be prevented by applying negative side injection at points where positive waterproofing is not possible. Leaking concrete structures can be permanently repaired by crack injection techniques using polyurethane resin which reacts with water to form a watertight foam.



## About Us



### Our Understanding Of Work

- To prioritize the scientific approach in studies,
- To ensure continuity in innovative products,
- To be an excellent team with high communication power,
- To provide values that will make a difference to the sector,
- To be focused on continuous learning and continuous improvement.



### Our Mission

To increase our product range in this field by focusing on innovative and environmentally friendly product designs and to leave a better world to future generations while making our living spaces more comfortable.

### About Us

PURIN is a brand that responds quickly to the requests of its customers, offers direct technical support with its experience and expertise, and has a "win to win" relationship with all its partners.



### Our Vision

For any environment that affects human life, we work with you and for you to prepare a bright future for generations to come by offering innovative, environmentally friendly, and safe products manufactured with utmost attention and care by Purin working relentlessly.

+20

Export to Country



+50.000 tons/year  
Production Capacity



+20

Large Scale  
Project



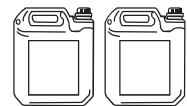
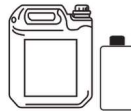
Engineering and  
Equipment Services







# TARVIX Polyurethane Injection Systems



## One-Component Products

- ✓ It creates foam in contact with water without the need for a catalyst mixture.
- ✓ There must be water in the application area.
- ✓ Polyurethane resins form a semi-rigid foam.

## One-Component Products With Catalyst

- ✓ Polyurethane resins react with water to form a watertight foam.
- ✓ There must be water in the application area.
- ✓ Polyurethane resins vary in rigid and semi-rigid, flexible and semi-flexible foam forms

## Two-Component Products

- ✓ Two-component non-foaming products are used for permanent sealing.
- ✓ Two-component foaming products are preferred in high volume voids, with or without water.
- ✓ They are used in void filling and ground stabilization applications in mining.

Injection in Mining



Injection in Tunneling



Injection in Dams



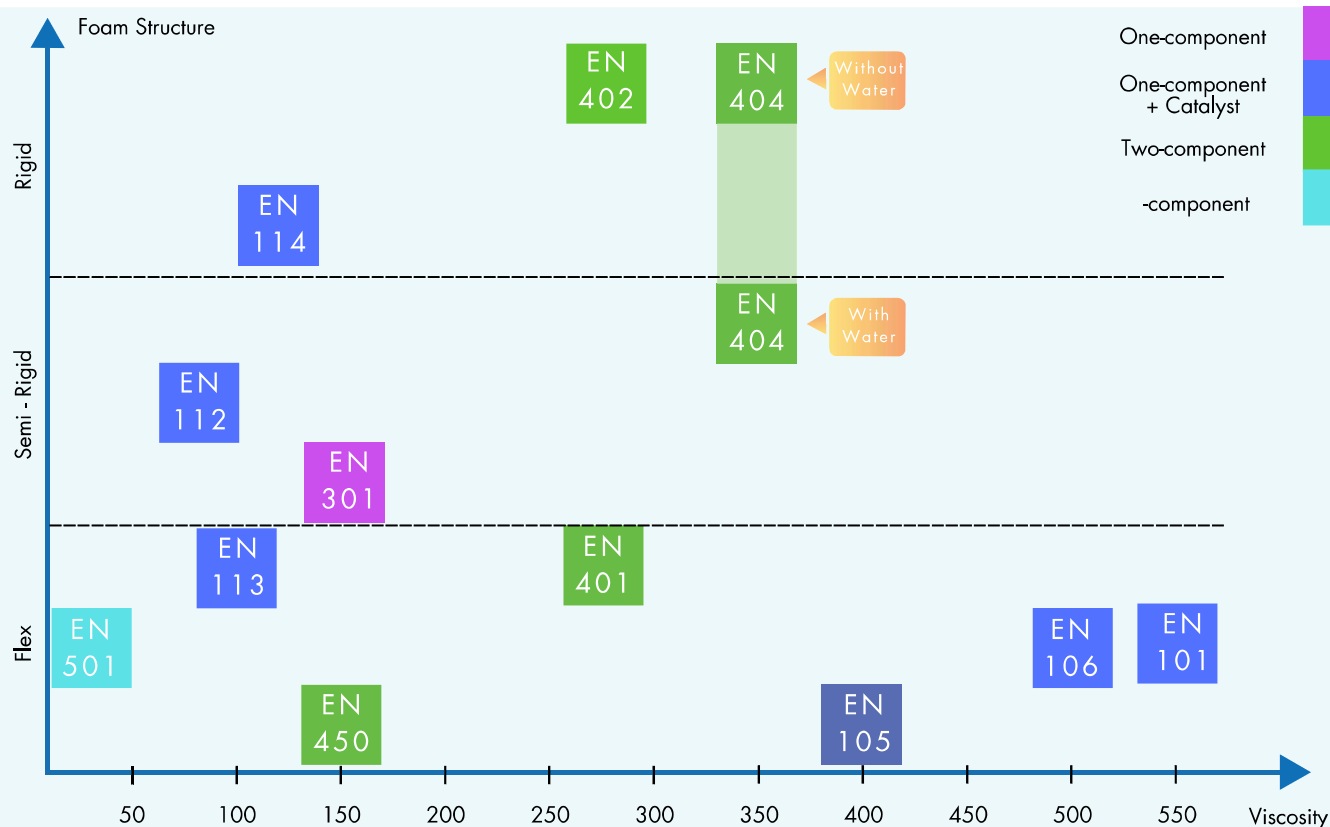
Crack Injection



Ground Strengthening  
and Stabilization



## Products Table



Products	Viscosity (cP, 23°C)	Mixing Rate	Structure	Start of Reaction	End of Reaction	Dilatation Injection	Crack Injection	Ground Stabilization	Mining and Tunneling	Dams
TARVIX EN 101	550 cP	10% Catalyst	Forms a flexible, closed-cell foam when in contact with water.	20 sec	150 sec	✓	✓		✓	✓
TARVIX EN 105	400 cP	10% Catalyst	Forms a very flexible, closed-cell foam when in contact with water.	20 sec	100 sec	✓	✓		✓	✓
TARVIX EN 106	500 cP	5% Catalyst	Forms a very flexible, closed-cell foam when in contact with water.	5 sec	80 sec	✓	✓		✓	✓
TARVIX EN 112	<100cP	5% Catalyst	Forms a semi-rigid foam when in contact with water.	10 sec	90 sec		✓		✓	✓
TARVIX EN 113	< 150 cP	10% Catalyst	Forms a flexible, closed-cell foam when in contact with water.	15 sec	150 sec	✓	✓		✓	✓
TARVIX EN 114	120 cP	1% Catalyst	Forms a semi-rigid foam when in contact with water.	20 sec	180 sec			✓	✓	
TARVIX EN 115	200 cP	5% Catalyst	Forms a semi-rigid foam when in contact with water.	18 sec	75 sec	✓	✓		✓	✓
TARVIX EN 116	200 cP	5% Catalyst	Forms a semi-rigid foam when in contact with water.	15 sec	95 sec	✓	✓		✓	✓
TARVIX EN 301	150 cP	Without Catalyst	Forms a semi-rigid foam when in contact with water.	20 sec	200 sec		✓		✓	✓
TARVIX EN 401	280 cP	1:1	Forms a watertight, flexible elastomeric gasket (70 shore A)	Pot Life: 40 min		✓	✓	✓	✓	✓
TARVIX EN 402	300 cP	1:1	Forms a watertight, rigid elastomeric gasket (70 shore D)	20 sec	40 sec			✓	✓	
TARVIX EN 403	300 cP	1:1	Forms a rigid foam in anhydrous environment	10 sec	350 sec			✓	✓	
TARVIX EN 404	350 cP	1:1	Forms rigid foam when in contact with water and forms a rigid elastomeric gasket in anhydrous environment.	10 sec	80 sec		✓	✓	✓	
TARVIX EN 404S	350 cP	1:1	Forms rigid foam when in contact with water and forms a rigid elastomeric gasket in anhydrous environment.	50 sec	500 sec		✓	✓	✓	
TARVIX EN 405	325 cP	1:1	Forms rigid foam in anhydrous environment, expands x1 of its volume (70 shore D)	40 sec	120 sec			✓	✓	
TARVIX EN 450	200 cP	1:1	Forms a very flexible, closed-cell foam, foaming reaction only takes place in direct contact with water	15 sec	80 sec	✓	✓		✓	✓
TARVIX EN 501	< 50 cP	1:1	It is a low-viscosity, elastic, acrylic-based injection resin.	Gel Time: 120 sec		✓	✓		✓	✓

## Values Proposition



### Engineering



With our engineers, we support you in the use of our products in your projects and provide solutions to the problems you encounter.

### Application

We provide injection molding application service if you need it for your projects.



### Machinery & Equipment



We provide you with solutions for all the machinery and equipment you need in injection molding applications.

### Product Expertise

We are at your side with our product experts in the development of special products and in the selection of application-specific products.



### Accessibility



PURIN's biggest goal is accessibility. We strive to be at the closest point to you with our production facilities, sales offices, warehouses, distributors and local solution partners.

### Fast Support

We provide very fast support with direct communication at the first contact, product presentations and selections, demos, sales process and most importantly after sales.



### Product Performance Guarantee



Our products are manufactured and quality tested according to international standards. We provide you with all the necessary performance criteria.

### References

Our reference list is expanding day by day with our product performance, services and business approach.



### Demo Application



If you want to see and experience the performances of our products, we provide demo application service for you.

### Fast Supply

We provide you with fast product supply with our global accessibility target, high production capacity, short-term stocked work and alternatives in terms of transportation.









# PURIN®



## Europe



PURIN GmbH



+ 49 172 739 60 97



Königsallee 92a, 40212  
Düsseldorf GERMANY



## Türkiye



PURIN LTD



+90 533 426 15 71



İbrikdere Mh. 158. Sk. No:12  
Kartepe-Kocaeli TÜRKİYE



## Contact Us



[www.puringlobal.com](http://www.puringlobal.com)



[info@puringlobal.com](mailto:info@puringlobal.com)

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