



## HydroBloc®644

Highly reactive, hard and tough injection resin

HydroBloc®644 is a very fast reacting injection resin. While setting, the resin expands a little bit. The result from this process is a hard and tough, microporous plastic with excellent adhesion all mineral substrates and even coal. Use HydroBloc®644 with 2 component technique (Dosing pump, mixing ratio 1 : 1).

### Typical application

- **Injections for securing tunnelling in mining and tunnel construction.**
- **Stabilisation of loose sands and loose rock.**
- **Consolidation of crumbly mining galleries in coal mining.**
- **Sealing injections in special civil engineering - also under water.**

### Properties

#### Product data

: **HydroBloc®644**

Composition	: PET-polyol and additives
- Component A	: Diphenyl methane diisocyanates, modified
- Component B	: 1 : 1 after volume
Mixing ratio	: 1 : 1 after volume
Viscosity	: Approx. 200 - 300 mPa.S (at 20°C; mixture 1:1)
Density	: Approx. 1,18 (at 20°C; mixture 1:1)
Odour	: Very weak, typical
Flash point	: -

#### Application data

Gel time	: 90 - 100 seconds (at 20°C)
Non-adhesive	: After 3 - 6 minutes (Depending on mass)
Hardening time	: 30 - 60 minutes (Depending on mass)
Volumization	: Approx. 150% (in dry milieu)
Heat of reaction	: 80 - 100°C (Depending on mass)
Compression strength	: > 60 N / mm <sup>2</sup>
Bending tensile strength	: > 45 N / mm <sup>2</sup>
Adhesion on concrete	: > 3 N / mm <sup>2</sup>

**Work safety** Both components are not inflammable but combustible. Protect the components of  
**Storage** fire and radiating heat. Store the product dry and cool, keep it away from children  
and unauthorised third parties. Opened casks should be closed directly after use. The  
**Disposal** B component contains isocyanates and reacts with water.

Avoid contact with eyes and skin while handling. Wear suitable protective clothes  
(safety gloves and goggles). The relevant industrial safety regulations of the employ-  
ers' liability insurance associations must be observed.

Reacted HydroBloc®644 is chemically inert and can be disposed of like normal con-  
struction waste. Liquid product residues are hazardous waste. They can be reacted by  
mixing with the second component and thus rendered harmless.

For both components is a safety data sheet available. It contains detailed information  
about safe handling of products.

**Recommended** **HydroSolv®520**  
**additives** Highly reactive, inert rinsing solvent to clean machines and hose lines. It is envi-  
ronmentally friendly with a very high flashing point. Harmless, nontoxic or harmful.  
No labelling required and no transport restrictions.

**HydroMoll®522**  
Efficient preservative agent for PU machines and hose lines. Combination of solving  
additives, harmless safety solvents and special diluents. Can stay in machine,  
avoids jamming of valves and gaskets. There is no labelling required. No labelling  
required.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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**ARCAN Waterproof**  
ARCAN GmbH Spezialbaustoffe

Kleinniedesheimer Strasse 19  
D-67240 Bobenheim-Roxheim  
Phone: +49 (0)6239 - 99 78 20  
Mail: [office@arcan.biz](mailto:office@arcan.biz)  
Web: [www.arcan.biz](http://www.arcan.biz)

passion to invent 