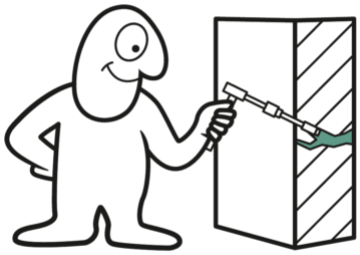
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WATERPROOFING INJECTION

sealing of concrete, masonry, brick, rock and soil



ARCAN offers injection resins for waterproofing cracks, construction joints, honeycombs, cavities and other defects in concrete, masonry, soil and rock. The product range includes rigid, flexible and water-swellable systems, allowing the injection material to be selected according to the structure, moisture conditions and required performance.

Water-swellable injection resins increase in volume after curing when they come into contact with water. Depending on the product, their flexibility and swelling properties can help accommodate changes in cracks and joints and support the long-term sealing function.

Integral injection resins are ready-to-use, one-component materials. They require no on-site mixing and have no conventional pot life. This simplifies application and reduces the risk of mixing and dosing errors. Depending on the product and application conditions, Integral Technology can also reduce material losses, cleaning requirements and processing time.

The acrylate injection resins listed in this application category cure to solid resin bodies and are not injection gels. They can be used for applications such as crack injection, injection-hose grouting, construction-joint sealing, honeycomb sealing and structural consolidation. Selected systems can also be processed at temperatures below 5°C; the applicable temperature range is specified in the respective technical data sheet.

Equipment used with these acrylate resins can be cleaned with water while the material is still uncured. No separate solvent-based cleaning agent is required.

The injection resins in this category have a solids content of 100% and can also be used for post-injection following the application of water-stop foam. Product selection must be based on the substrate, moisture conditions and the intended sealing function.

WATERPROOFING INJECTION

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc PU 500	PUR Resin 1 Component Pump	Crack Injection Working Joint Sealing Honeycomb Concrete Injection Injection Tube Injection Waterstop Flexible Filling, Sealing Foam Follow Up Waterproofing Injection	Swellable Elastic Self-Repair Effect
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Quellschaum 500-15	Swellable Elastic Foam 2 Component Pump	Dilatation Joint Sealing Waterproofing Injection Waterstop Sheet Pile Wall Sealing Slurry wall sealing Cavity Filling Flexible Filling, Sealing	Single Shot Systems Flexible Swellable No Pores No Shrinkage
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc PU 506	PUR Resin 1 Component Pump	Crack Injection Working Joint Sealing Honeycomb Concrete Injection Injection Tube Injection Waterstop Foam Follow Up Waterproofing Injection	Elastic Low Viscous Excellent Penetration Excellent Adhesion
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc 510	PUR Foam 1 Component Pump	Waterstop Soil, Rock Stabilization Cavity Filling Waterproofing Injection	High Foam Factor Micro Pores Rapid Reaction Fast Setting Stable
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc 510 Integral	PUR Foam 1 Component Pump	Waterstop Soil, Rock Stabilization Cavity filling Waterproofing Injection	High Foam Factor Micro Pores Rapid Reaction Fast Setting Stable
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
Hydrobloc 516	PUR Foam 2 Component Pump	Waterstop Filling Wide Cracks Filling Wide Joints Cavity Filling Soil, Rock Stabilisation Waterproofing Injection	Rigid Foam Fast Reaction Waterproof High Foam Ratio Tough High Compressive Strength

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroSoil 517	PUR Resin 1 Component Pump	Crack Injection Horizontal Barrier Internal Strengthening Soil, Rock Stabilization Waterproofing Injection	Low Viscous Ready To Use Integral Technology
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Polygel 530	Acrylate Gel 1 & 2 Component Pump	Waterstop Curtain Injection Foundation Pit Sealing Joint Sealing Crack Injection Canal, Shaft Repair Tunnel Injection Waterproofing Injection	Setting Between 10s – 120 Minutes Excellent Penetration Controlled Swellability Easy Processing Water-Based Chemical Resistance Mechanical Resistance
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Polyblend 540	Acrylate Additive 1 & 2 Component Pump	Waterstop Curtain Injection Foundation Pit Sealing Joint Sealing Crack Injection Canal, Shaft Repair Tunnel Injection Waterproofing Injection	Elasticity Tear Resistance Reduced Shrinkage
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc AC 555	Acrylate Resin 1 Comp. Pump	Crack Injection Facade Injection Working Joint Sealing Honeycomb Concrete Injection Injection Tube Injection Contact Grouting Internal Strengthening Soil, Rock Stabilization Waterproofing Injection Hollow Screed, Tiles	Low Temperature Use <0°C Contact Grouting Cleaning With Water
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Rapid 570	Injection Rubber 2 Component Pump	Dilatation Joint Sealing Waterstop Waterproofing Injection Sheet Pile Wall Sealing Slotted Wall Sealing Slurry Wall Sealing Tunnel Injection Flexible Filling, Sealing	Swellable Injection Rubber Tear Tesistance Non Foaming Rapid Reaction Pore Free Structure Single Shot System

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Integral 575	PUR Resin 1 Component Pump	Crack Injection Canal, Shaft Repair Feedthrough Sealing Foam Follow Up Working Joint Sealing Honeycomb Concrete Injection Injection Tube Injection Waterstop Waterproofing Injection Flexible Filling, Sealing	Integral Technology 1 Comp. Resin Ready To Use Swellable Elastic 100% Solid Self Repair Effect

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Injekt 583	Acrylate Resin 1 Component Pump	Crack Injection Facade Injection Canal, Shaft Repair Feedthrough Sealing Foam Follow Up Working Joint Sealing Honeycomb Concrete Injection Injection Tube Injection Waterstop Waterproofing Injection	Excellent Penetration Low Temperature Use <0°C Swellable Elastic Corrosion Prevention Cleaning With Water Non Foaming Solid Resin-No Gel Suitable For Humidity

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc OM 591	Organo Mineral Resin Silicate Resin 2 Component Pump	Anchor Bonding, Fixing Tunnel Face Consolidation Tunnel Umbrella Injection Tunnel Face Pre-Injection Soil, Rock Stabilization Waterstop Waterproofing Injection	Excellent Adhesion Non-Foaming Shrink-Free Fast Setting Early Strength

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc OM 593	Organo Mineral Foam Silicate Foam 2 Component Pump	Anchor Bonding, Fixing Tunnel Face Consolidation Tunnel Umbrella Injection Tunnel Face Pre-Injection Soil, Rock Stabilization Waterstop Waterproofing Injection	Excellent Adhesion Shrink-Free Foam Factor 2-3 Fast Setting Early Strength

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc 620 Integral	PUR Foam 1 Comp. Pump	Crack Injection Working Joint Sealing Honeycomb Concrete Injection Injection Tube injection Waterproofing Injection	INTEGRAL Technology 1 Component Resin Ready To Use Auto Injection Hydroactive Excellent Adhesion

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc 620 nV	PUR Foam 1 Component Pump	Waterstop Foundation Pit Sealing Crack Injection Soil, Rock Stabilization Cavity filling Waterproofing Injection	Medium Active Micro Pore Adjustable Flexibility
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroFlex 621 SuperFlex	PUR Foam 1 Component Pump	Crack Injection Canal, Shaft repair Waterproofing Injection Flexible Filling, Sealing Flexibilized HydroFlex 620 Waterstop	Additive Micro Pores Adjustable Flexability
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroFlex 622	PUR Foam 1 Component Pump	Crack Injection Waterstop Cavity Filling Waterproofing Injection Canal, Shaft Repair Flexible Filling	Medium Active Micro Pores Flexible
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Polygrout 650	PUR Gel 2 Component Pump	Curtain injection Waterstop Waterproofing Injection Sheet pile wall Sealing Slurry wall Sealing Bored pile wall Sealing Canal, Shaft Repair Tunnel Face Consolidation Tunnel umbrella injection Soil, Rock Stabilization	Concentrate Elastic Tear Resistant Swellable
PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Polygel PU 660	PUR Gel 2 Component Pump	Curtain injection Waterstop Waterproofing Injection Sheet pile wall Sealing Slurry wall Sealing Bored pile wall Sealing Canal, Shaft Repair Tunnel Face Consolidation Tunnel umbrella injection Soil, Rock Stabilization	Standard 2 Comp. Pump Elastic Tear Resistant Fast Curing Swellable

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
SiliBond SI 711	Silicate Gel 2 Component Pump	Bottom Sealing Soil, Rock Stabilization Cavity Filling Foundation Pit Sealing Waterproofing Injection Curtain Injection	Adjustable setting time Low syneresis Silicate-based system

PRODUCT NAME	TECHNOLOGY	APPLICATION	BENEFIT
HydroBloc Schaum 1200	PUR Foam 2 Component Pump	Waterproof Injection Cavity Filling Waterstop Soil, Rock Stabilization Tunnel Face Consolidation Tunnel Umbrella Injection Tunnel Face-Pre-Injection	Low Viscous Fast Reaction Good Foaming Capacity Excellent Penetration

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