



PRODUCT RANGE

Injection · Sealing · Consolidation · Rehabilitation · Anchoring



F. Willich

SINCE 1882

INJECTION MATERIALS



ONE-COMPONENT POLYURETHANES

- ready to use, no premixing required
- high foaming factors
- semi-flexible / flexible closed cell
- manageable reaction speed with WILLADD®



ACRYLATE GELS

- low viscosity and excellent penetration ability
- adjustable reaction time
- high impermeability and elasticity
- chemical resistance to organic and inorganic fluids
- easy handling and cleaning



TWO-COMPONENT POLYURETHANES

- elastic waterproofing in cracks
- closed cell structure
- high mechanical resistance
- progressive foaming in contact with water
- consistency and reaction speed adjustable with WILLADD® FAST & WILLADD® THIX
- permanent and lasting solutions



SILICATE RESINS

- organo-mineral
- short reaction times
- high initial strengths
- non-flammable
- no reaction change in case of water contact
- high adhesion



EPOXY RESINS

- high final mechanical strengths
- high adhesion in dry substrates
- ideal for structural repairs
- non-foaming



CEMENTITIOUS GROUTS

- proven technique
- high initial and final strengths
- no shrinkage
- sulfate resistant

TYPICAL APPLICATION FIELDS

(*) suitable

(**) very well suitable

(***) optimal

	Stop of Water Inrush	Sealing	Structural (force fitting) crack injection	Elastic crack sealing	Curtain injection	Cavity filling	Foundation/Sab lifting	Ballast bonding	Anchor grouting	Ground consolidation	Joint sealing	Precast element sealing	Masonry injection	Excavation front stabilization (TBM)
One-component polyurethanes														
WILLSTOP® 1K/1K+	**	*			*	*				*				
WILLSTOP® Flex		*		**	*	*					**			
Two-component polyurethanes														
WILLPUR® CS		***		***	**					*	*	**	**	
WILLPUR® WS-X	*	**	**		*			**	*			**	*	
WILLPUR® WS-F	**	**	*										*	*
WILLPUR® WS	*	**	*		*			*					*	*
WILLPUR® WS FA	***	**	*											
WILLPUR® WS HF	***	**				**								
WILLPUR® HF+	*	**				*	*							
WILLPUR® HF		*				*	*							
WILLPUR® SL		*					***		*					**
WILLPUR® S		*					*		*	*				**
Silicate resins (organo-mineral)														
WILLKAT® Foam	*	*				***				*				***
WILLBOLT®	*	**				*			***					
WILLKAT® FA		*	*			*	***		**	*			*	**
WILLKAT® LV		*	*			*	*		*	*		*	*	**
WILLKAT® BB			*			*		***	*	*				
Acryle gels														
WILLGEL® PRO		***		***	***					**	*	***	***	**
WILLGEL® SWIFT	*	***		**	***					**	***	*	**	**
WILLGEL® Y	*	*			*					***				***
Epoxy resins														
WILLPOX® 7416			***					**	*			*	*	
Cementitious grouts														
WILLBOLT® Grout						**			**					
WILLBOLT® Injection Grout			**	*	**	**		**	**					*

INJECTION TECHNOLOGY, PUMPS AND ACCESSORIES



2C PISTON PUMPS



1C MEMBRANE PUMPS



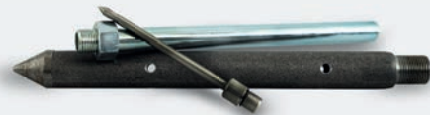
DRILL PACKER



ACCESSORIES



PLASTIC PACKER



LANCES AND INJECTION NEEDLES



FRP ANCHORS



SDA ANCHORS