

CLF ULBRICH JOINT® POWER/AIR

The ultimate solution

- Excellently suited for air cushion technology
- Resilient to vulkollan, polyamide and steel tyres
- Guaranteed smooth and shock-free travel
- Cost reductions for stacker equipment
- Easy on the back of fork-lift truck drivers
- Horizontal and vertical movement absorption
- Seamless design
- Patented design
- Alkali- and acid-proof
- Food-safe
- Free of fungi and germs
- Weatherproof
- Movement absorption ± 14 mm
- Long working life
- Impervious to water
- Low transmission of vibrations
- Special designs on request
- Withstands every type of pressure



CLF ULBRICH JOINT® is a jointing compound made of synthetic liquid material which stays permanently elastic and does not require a metallized screed.

It has many technical advantages when compared to other construction and expansion joints including:

- Drivable after 1-2 hours
- Used at temperatures ranging from -30°C to +90°C – ideal for freezers
- Water impermeable and weatherproof – ideal for car parks and parking decks

Profile type	Joint movement horizontal in mm	Joint movement vertical in mm	Profile depth approx. in mm	Joint width in mm	Load capacity cars + trucks in kN	Load capacity lift trucks in kN	Load capacity solid tyres kg/mm wheel width
PA I	± 4	± 1	15	120	700	180	25
PA II	± 5	± 2	15	150	700	180	25
PA III	± 6	± 3	20	180	700	250	30
PA IV	± 7	± 4	20	210	700	250	30
PA V	± 8	± 5	20	240	700	250	30
PA VI	± 10	± 5	25	280	700	250	35
PA VII	± 11	± 6	25	320	700	250	35
PA VIII	± 12	± 6	30	360	700	250	35
PA IX	± 13	± 7	30	400	700	250	35
PA X	± 14	± 7	30	440	700	250	35

TECHNICAL PROPERTIES

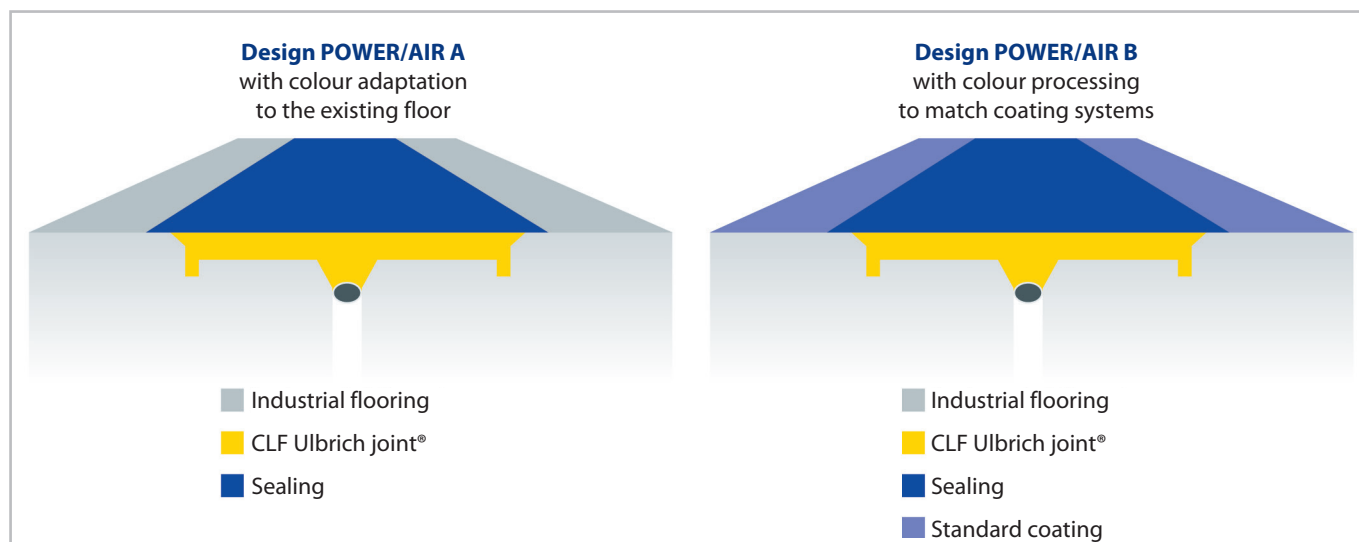
- **Less downtime** Fully able to withstand load after just a few hours of hardening time. High functionality with low maintenance.
- **Soundproofing and sound absorption** Our special jointing material reduces noise, eliminating the transfer of sound to adjacent structures.
- **Shock and vibration reduction** Any impact, vibration or shock damage will be significantly minimised. Adapts to dimensional changes due to horizontal and vertical structural movement.
- **Thermal resistance** Designed for use in range from -30°C to +90°C.
- **Waterproofing** Excellent resistance to hydrolysis, hot air and ozone.
- **Abrasion resistant** Coated with a synthetic liquid material making it especially resistant to wear when wet.
- **Chemical resistance** Largely resistant to de-icing salt solutions, diluted non-oxidising acids and caustic solutions up to 40°C. Resistant to microorganisms. Sterile and free of fungal growth.
- **Cracking** Can be filled permanently. Resistant to further cracking.
- **Water impermeable** The airtight jointing compound is impermeable to water providing a seamless sealing protecting floor from harmful substances.
- **Excellent adhesion** To adjacent concrete slabs and screed with absolutely level transition.

POTENTIAL APPLICATIONS

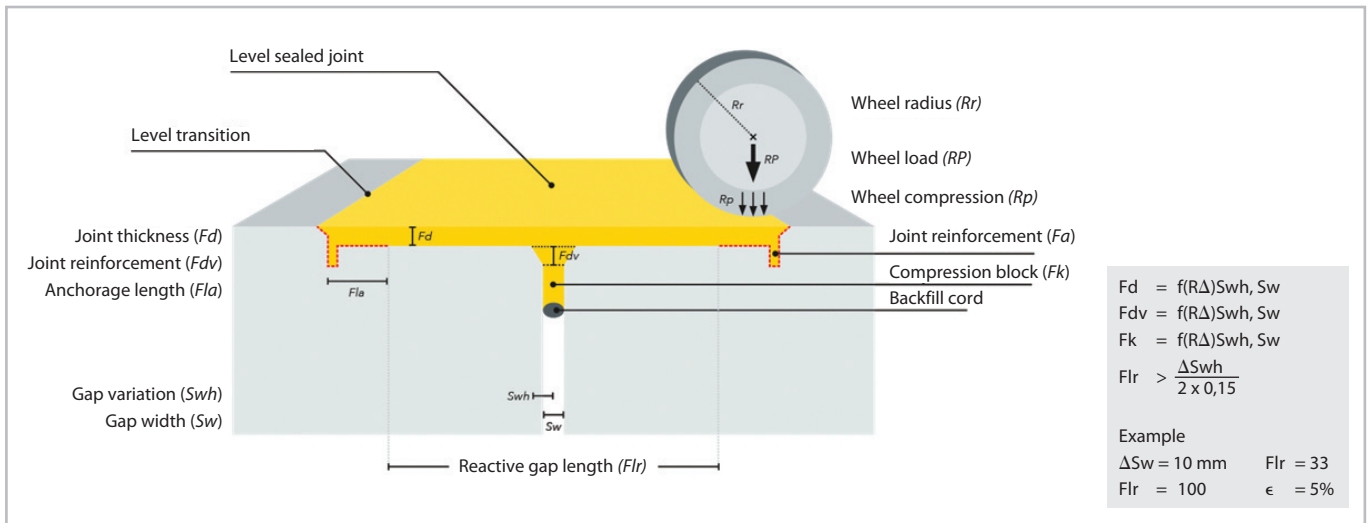
- Skimming floors
- Heavy mechanical handling sector
- Logistics, haulage and transportation companies
- Multi-storey car parks and parking decks
- Pharmaceutical industry for sterile joints and transitions
- Chemical industry – resistance to acid and caustic solutions
- Clinic, hospital and laboratory sector
- Food industry
- Internal and external areas where conventional joints fail



EXAMPLES OF DIFFERENT DESIGN ALTERNATIVES



CLF ULBRICH JOINT®



ADVANTAGES OF CLF ULBRICH JOINT® COMPARED TO STANDARD JOINTS AND JOINTING PROFILES

Requirements	Standard Concrete Joints	Joint Profiles	Ulbrich joint®
Deformation horizontal	< 1 mm Rd. 20% of the joint width	< 20 mm normally no compensation	< 30 mm
Deformation vertical	Compensation not possible	Special profile possible	< 7 mm
Edge protection	<No edge protection	Dependant on profile	Complete
Specialised Function			
Air cushion vehicles	Limited	Not possible	Very well suited
Sealing	Limited to vehicle with pneumatic tyres	Special profile	Very well suited
Retro-installation	Possible	Complicated transition required	Very well suited
Refurbishment of existing joints	Barely possible	Complicated transition required	Very well suited
Food area	Not suitable	Cleaning danger of germs and fungal growth	Very well suited
Multi-storey car parks	Not suitable	Special profile possible	Very well suited
Very low installation depths needed	Possible	> 40 mm	15-25 mm

CAUTION: May contain flammable solvents. Keep away from sparks and open flames. In confined areas workmen must wear fresh airline respirators. Hypersensitive persons should wear gloves or use protective cream. All electronic equipment and installations should be made and grounded in accordance with the national electrical code. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and to wear conductive and nonsparking shoes.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied. We guarantee our products to conform to CLF quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. **No other warranty or guarantee of any kind is made by clf, express or implied, statutory, by operation of law or otherwise, including merchantability and fitness for a particular purpose.**