



**KRAFFT'S
SOLUTIONS
FOR TRANSPORTATION
INDUSTRY**



SEALANTS AND ADHESIVES

PU STRUCTURAL ADHESIVES

NOVATTANE 3100

High performance structural 2-components polyurethane. It is a highly performing adhesive for fast bonding of any size part on a wide variety of substrates (plastic, composite, metal, wood, glass, etc.). To glue any type of panels, floors, etc. It is a thixotropic product for a quick adhesion.

HYBRID TECHNOLOGY

SILKRON POLYMER H200

Last generation hybrid polymer. It is a one-component adhesive with high modulus and very high initial tack (green strength) that allows immediate bonding in vertical position for any size part.

SILKRON POLYMER H100 Y H75

Semi-structural one-component modified polyurethane using the hybrid technology. Adhesive with respectively high and medium modulus. Good initial tack (green strength). Suitable for fixing side, front, rear and ceiling panels in trains, buses and vans. Sealing of door frames, windows (motor home, horse's trailer, etc.) and trailers bows.

POLIFLEX PRO

Modified PU with medium modulus and crystal clear. High sealing capacity. It cures quickly at room temperature.



POLYURETHANES

POLIFLEX PLUS

One-component polyurethane sealant/adhesive with a medium-high modulus for sealing. It provides a good and quick adhesion to most of the substrates. Good resistance to UV.

PU WINDSCREEN K-1

High technology structural adhesive for fixing directly glass and windscreen. High modulus PU with fast cure. Permanent flexibility, excellent sealing and perfect adhesion. It provides higher stiffness to the body.



SILICONES

For FIPG (Form-In-Place-Gasket). Excellent thermal and electric insulation. Very good resistance to the elements.

FLOOR COATINGS

POLISOL 2315

Two-component self-levelling polyurethane for floor coating. Highly resistant.

ADHESIVES FOR PAVEMENT

PU 458

Two-component PU suitable to joint together all kind of floor lining (fabric or plastic) in train and buses.

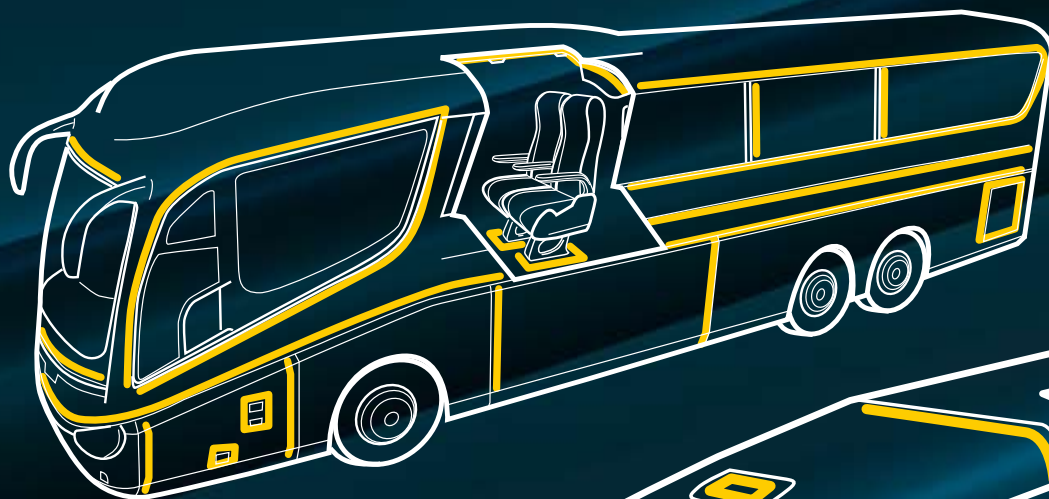
KRAFKOL

One-component modified PU adhesive for any kind of lining. Easy to apply even in slightly wet surfaces.

CONTACT EXTRA GLUE

Polychloroprene rubber adhesive special for any decorative coating. Easy to apply, high efficiency.





CLEANERS

There is an extended range of cleaners in Krafft going from interior cleaner, neutral shampoo for automatic washing machines for exterior until strong alkaline shampoos. Here a small selection of our cleaners.

HD-180 SHAMPOO ENERGIK PLUS: strong alkaline shampoo for bodywork with no necessity to rub off. Not applicable to light alloys.

HD-200 SHAMPOO ENERGIK: alkaline shampoo for bodywork with no necessity to rub off. Applicable to light alloys also.

TERCLEN: strong degreaser for very dirty parts.

LUBRICANTS

Krafft has a very wide range of lubricants, oils and greases. It allows to lubricate the engines, the gearboxes, the brakes, the bearings, the plastic and rubber parts, the CV joints, the steering rack...

OILS

ENGINE OILS:

Krafft is offering an extended range of many different viscosities, synthetic or mineral: from the low viscosity like the SAE 5W30 till high viscosity like SAE 20W50. For the heavy duty engines, Krafft's oils are covering the requirements for being used into the EURO III and EURO IV engines. They meet the different international standard going up to ACEA E-7 and up to API CJ-4. Furthermore they meet OEM specifications, like Volvo, Mercedes, Man...

TRANSMISSION OILS:

For manual gearboxes and differentials, the range is covering the requirements of API GL-4 and API GL-5, with different viscosities, like SAE 80W90, SAE 90, SAE 140, SAE 75W80, SAE 75W90, SAE 85W140.

For automatic transmission, our products are meeting international and OEM standards like DEXRON II, DEXRON III G, ALLISON C-3 and C-4, VW; SEAT, Audi, Mercedes, GM Type A Suffix A...

HYDRAULIC OILS:

From ISO VG 32 up to ISO VG 68, HLP-HM types for high pressure and HLVP-HV types with high viscosity index.

GREASES

In between the extended range, here are some specialties or specific lubricants

VN 2461 C:

Grease for CV joints (homocinetic joints)

KEP-2 GF:

Grease for tripod joint

POLYGREASE CHI PLUS:

Synthetic grease for mechanisms requiring low friction and/or high temperature

BASELA BC 2:

Synthetic grease for very low temperature (till -60°C) for cables, window mechanisms...

KL COMPLEX 150:

Long lasting, high temperature grease for wheel bearings...

KL COMPLEX 280:

long lasting, high temperature, dampening effect for door mechanisms...

ANTI-SQUEAK MIX 29:

Special lubricant to avoid squeak on rubber bellow

SITELA 2: long lasting, high temperature, dampening effect for door mechanism...

KEP 2 GF-M2: adhesive and water resistant grease, low temperature, for windscreen cleaner gearbox, steering rack...

Q4-5879:

Cable, silent-block, steering joints...

KEC:

Centralized lubrication for buses and truck

KCS:

Grease for chassis

COOLANTS ANTIFREEZE

Krafft is the leader in the Spanish market for automotive coolants. The annual production reaches the quantity necessary to fill 5 millions vehicles. The range is composed with the classical coolants (C type, but NAP free, i.e. Nitrites, Amine and Phosphorous free) and the new technology coolants using organic additives (D type) which gives a very long life. All of them provide a very good protection against corrosion, even for the light alloys used in the modern engines. Furthermore some coolants are offering a special protection against cavitation that occurs in the big engines.

INORGANIC, C type, NAP free

UNIVERSAL

CONCENTRATED:

Temperature according dilution

CC 10%:

Diluted at 10% for -5°C

CC 20%:

Diluted at 20% for -11°C

CC 30%:

Diluted at -30% for -19°C

CC 50%:

Diluted at 50% for -37°C

Range with special additive to protect against cavitation (big engines)

ENGINE MAX PURE:

Concentrated, temperature according dilution

ENGINE MAX 50%:

Diluted at 50% for -37°C

ACU 2300 PURE:

Concentrated, temperature according dilution, MERCEDES-BENZ 325.0

ACU 2300 50%:

Diluted at 50% for -37°C, MERCEDES-BENZ 325.0

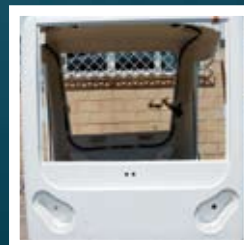
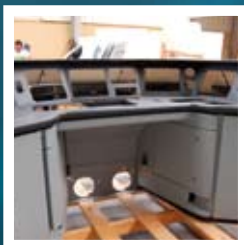
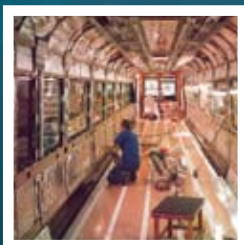
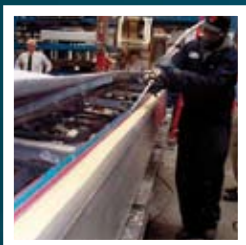
ORGANIC, D type, with protection against cavitation.

ENERGY PLUS 50%:

Diluted at 50% for -37°C

K-140 ENERGY PLUS:

Concentrated approved MERCEDES-BENZ 325.3



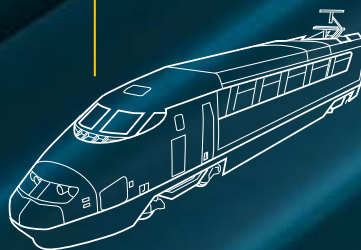
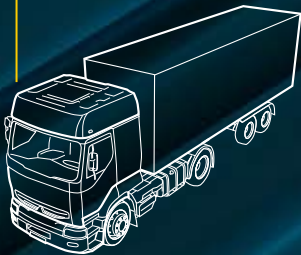


KRAFFT'S SOLUTIONS FOR TRANSPORTATION INDUSTRY

The transport has been developing lately, so the solutions for this sector have been forced to adapt themselves to the new requirements. In a market where the safety and the technological advantages are the key, the tools to help this sector to grow technologically and to optimize the manufacturing process are available at Krafft S.L.

Krafft S.L. with more than 50 years experience and leader of the automotive sector, is offering a large updated range of products. They will make easier and will improve the industrial vehicle bodywork and also their interior/exterior finish, solving the highest requirements of the companies.

In this catalogue, there is information about the different last generation adhesive/sealant range and its most important applications. Till now Krafft S.L. provided solutions to any type of customer (Irizar, CAF, Talgo, Nissan, Alstom, etc.), defining and developing the most suitable product for any application and manufacturing process, increasing the productivity and decreasing the costs. Krafft S.L. is continuously offering last generation products on the market and is working hard to remain on the forefront in this sector.



REPAIR PUTTY

ELITE 2000

Two-component product, easy to apply and to paper-sand. Excellent adhesion on different substrates (naked steel sheet, aluminium, wood, zinc coated, etc.). Good elasticity and flexibility, high filler capacity and good finish also.

GLASS FIBRE

Non-saturated polyester based putty with glass micro-fibres to repair bodywork. High filler capacity, easy to paper-sand, good adhesion on steel, zinc coating and aluminium.

OTHER KRAFFT'S SOLUTIONS

STEC

Anti-corrosion coating

- **Galva Flash:** High anticorrosion capacity and high resistance to temperature and UV. Outstanding shining effect.
- **Galva matt:** With highly pure zinc particles. To retouch and to protect welding.
- **Galva Inox:** Special for protection of stainless parts.

PU FOAM

To fix, to seal, to insulate, to fill, to soundproof and to protect cavities, structural spaces and joint. With classification against fire.

DOUBLE- FACE ADHESIVE TAPES

High quality acrylic tapes, excellent adhesion and high resistance. Good results in bonding different automotive decorative elements (mirrors, protective elements, etc.).

COMPLEMENTARY PRODUCTS FOR MAINTENANCE LIKE:

- BRAKE FLUIDS, WINDSCREEN CLEANERS, ANTI-GRIT, etc...



KRAFFT, S.L.U.

Ctra de Urnieta s/n
20140 Andoain - SPAIN
Phone: +34 943 410 460
Fax: +34 943 410 430
E-mail: export@krafft.es
An Illinois Tool Works Company