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PRÜF- UND FORSCHUNGsinstitut PIRMASENS E.V.

CERTIFICATE

The certification authority of the PFI hereby certifies that the company

JAKOB KECK CHEMIE GMBH
Zweibrücker Straße 189-193
DE – 66954 Pirmasens
for

Development, producing and trading of adhesives, paints, varnishes,
parting agents and chemical auxiliary products

has adopted and appliances a

Quality Management System.

A quality audit conducted by the PFI provided evidence that this quality management system fulfils the requirements of the following standard:

DIN EN ISO 9001 : 2008

This certificate is valid until: **2012-12-14**

Registration number: **0909458-01-81**

Pirmasens, date 2009-12-15



TGA-ZM-15-94-00

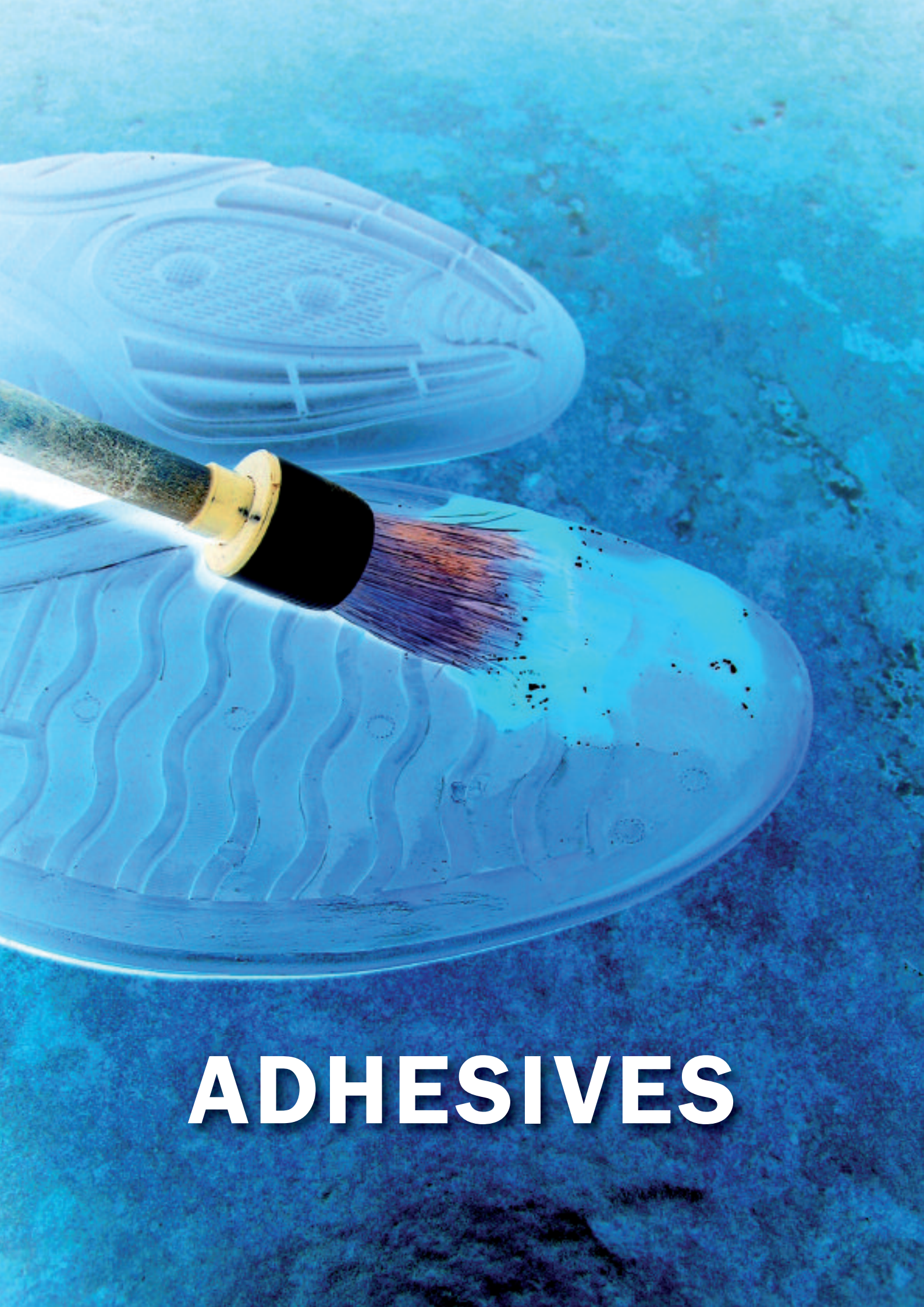


Certification authority

J. Reichelt

Lead quality auditor

K.-E. Hauter



ADHESIVES

Polyurethane-Adhesives

KECK-PUR 701 (1- or 2-component)

Special adhesive for gluing of Elastomer (Thunit)-soles without halogenation. In many cases it can be used without roughening the soles.

KECK-PUR 702 (2-component)

Adhesive with a more flexible film and a lower activation temperature (approximately 50° C), high quality. Due to the relatively low activation temperature, ideal for concave soles and synthetic materials.

KECK-PUR 704 (1- or 2-component)

Universal adhesive, high quality, suitable to cement nearly all shoe materials (after corresponding pre-treatment), as for example leather, rubber, polyurethane, PVC, TR, TPU. High heat resistance, high initial strength, activation temperature approximately 60° C.

KECK-PUR 705 (1- or 2-component)

High quality universal adhesive, same field for use as PUR 704, very high initial tac, specially suitable for sole material with tension or soles with a spoiler. Activation temperature approximately 70° C.

KECK-PUR 712 (2- component)

Pre-glue for very absorbent upper-leathers, suitable for leather with higher fat content.

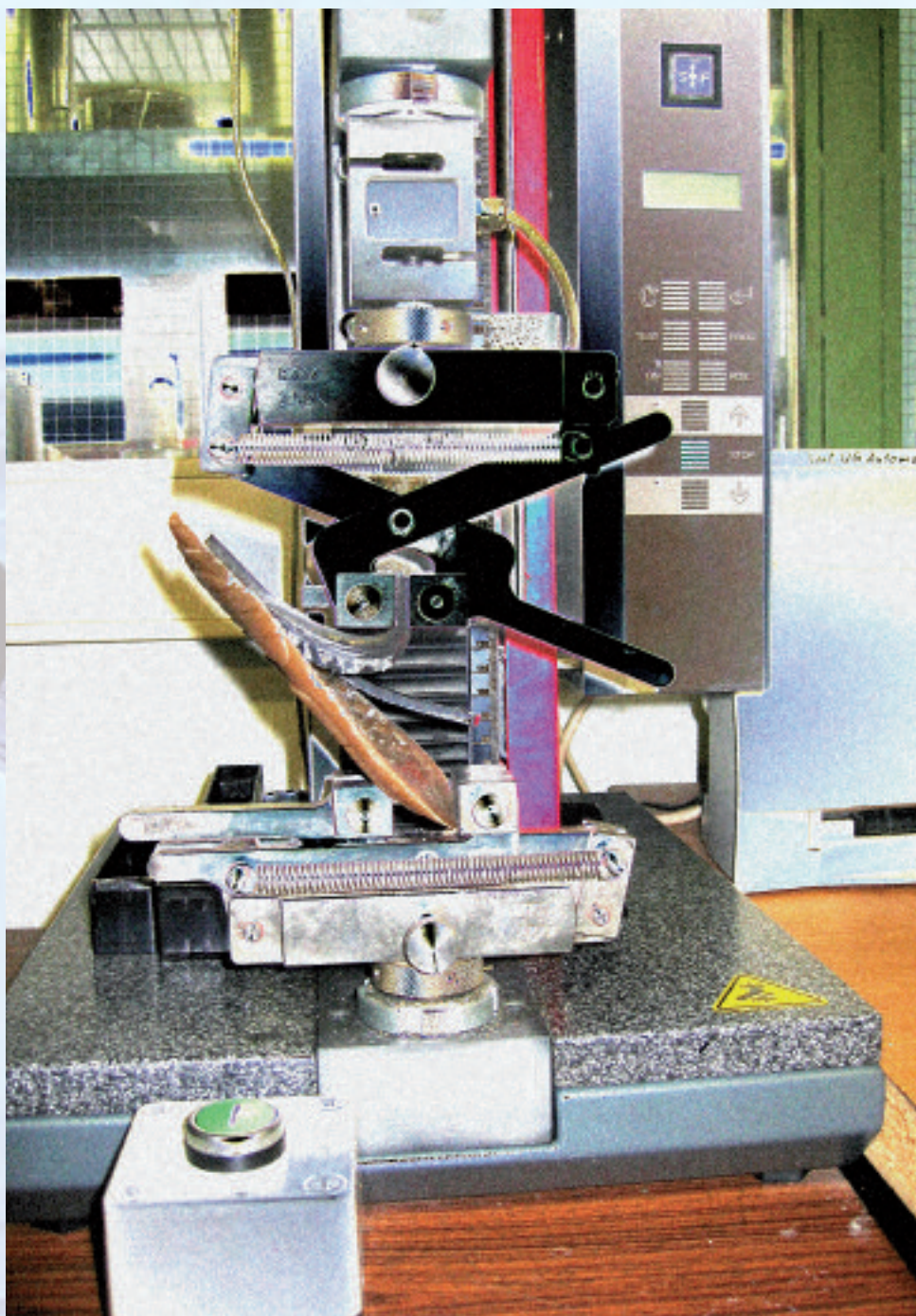
Processing with 5% Hardener 852.

KECK-PUR 715/2

(1 – or 2- component)

Contact-adhesive with an open time (cold-adhesion-time) of approximately 20 minutes.

For cold adhesion of soles and upper-materials. After the open time is exceeded, this adhesive can be further processed through activation (45-50° C).



KECK-PUR 708 (2- component)

Direct-injection polyurethane adhesive in combination with halogenated rubber-soles. For the PUR-material is required a certain density in order to achieve the necessary contact pressure.

KECK-PUR 721/3

Pre-glue for PUR-soles, should be used in combination with KECK-Cleaner 951/16. Very good results as adhesive primer for pre-treatment (instead of roughening) of PU-covered split-leather on injection of polyurethane.

Polychloroprene-Adhesives

KECK-PREN 800 (1- component)

For adhesion of rubber – or leather-soles against leather-uppers, very suitable for workshops which repair very fast.

KECK-PREN 807 (1- or 2- component)

High initial strength, also suitable to glue belts.

KECK-PREN 808 (1- component)

Fast, strong adhesive for assemblage , suitable for rubber- or leather-soles against leather-uppers, high heat resistance.

KECK-PREN 809 (1- component)

Assemblage and lasting adhesive with a tack time of approximately 60 minutes.

KECK-PREN 823 (1- component)

Heel covering adhesive for spreading, stitching department adhesive with a long open time.

KECK-PREN 822 (1- component)

Heel dipping adhesive for a later covering with leather-foil, synthetic- or leather-material.

KECK-PREN 801 (1- or 2- component)

Suitable for lightly bonding in the stitching department and small leather goods.

KECK-PREN 805 (1- or 2- component)

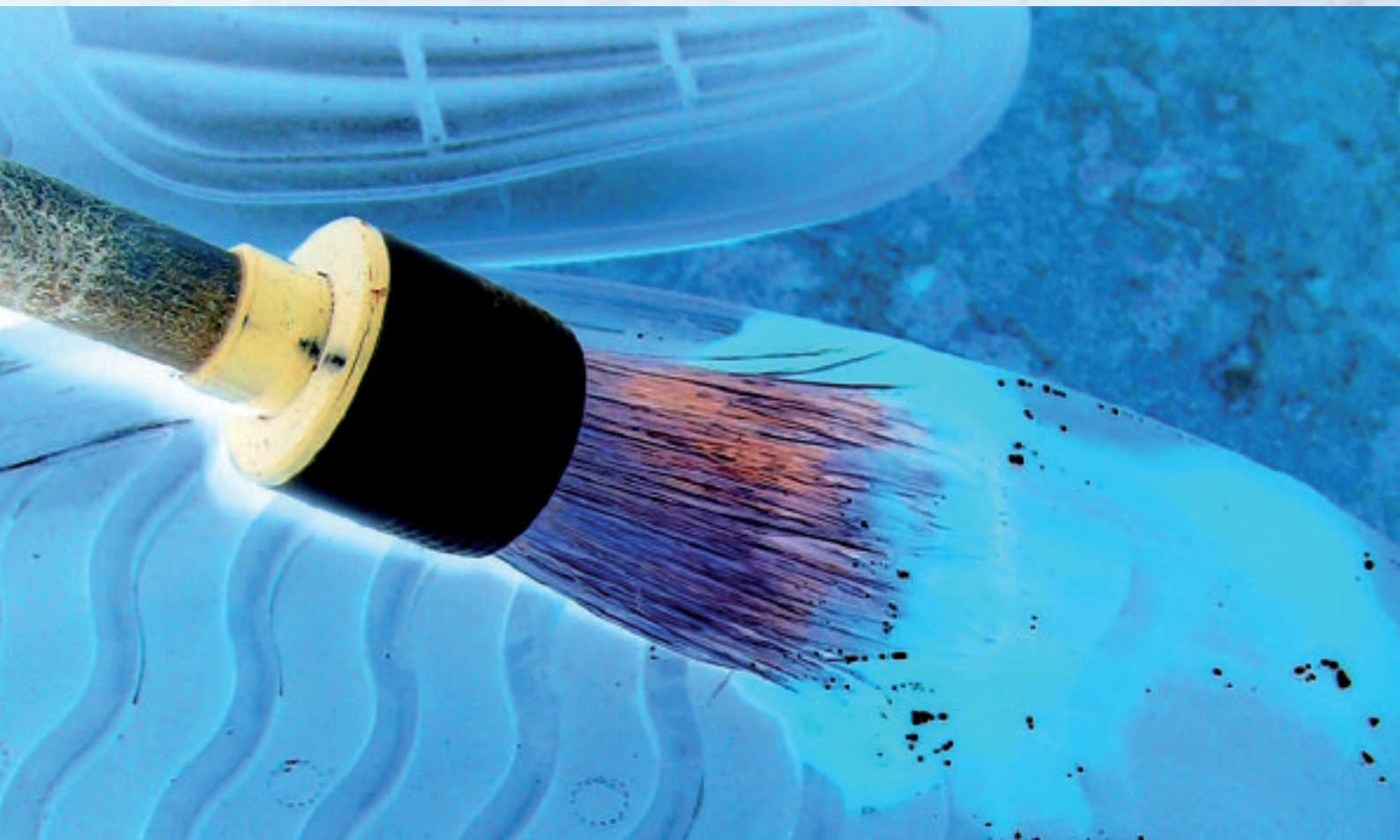
Special adhesive for crepe-soles.

KECK-PREN 832/45

Very good lasting adhesive with a long open time, also used for working with mid-soles.

KECK-PREN 833

Clear assemblage adhesive that is also suitable very well for preparing work in the stitching department.



Latex- and Water-Base Adhesives

KECK-DIS 750

Natural latex for hand-, machine or spray gun application. Contact adhesive in order to fix soles, seams, linings and other natural materials.

KECK-DIS 754

Natural latex as it is DIS 750 but with higher viscosity, for hand- and machine application.

KECK-DIS 753/6

Synthetic latex for gluing and to fix stiffeners, insoles, linings. Suitable for hand-, machine-and spray gun application.

KECK-DIS 771

Counter dipping cement for Lefa and cardboard.

KECK-DIS 771/8

Counter dipping cement for Lefa and cardboard, also for pre-coating.

KECK-DIS 779 (1-or 2- component)

Polyurethane-dispersion, for gluing of leather, PUR, PVC, Thunit, TR, rubber (after corresponding pre-treatment)

Can also be used in the 2- component version with Hardener 859.

Similar to the adhesion of KECK-PUR 704.

KECK-DIS 779 is also available as sprayable version named KECK-DIS 779 SP.

Hardener Systems

KECK-HARDENER 850

Fast catalyst for all KECK-PUR adhesives and PREN adhesives as well as for direct injected soles. Fat leathers show a good resistance against migration, open time approximately 3 hours.

KECK-HARDENER 852

Slow catalyst for all KECK-PUR types, open time approximately 1 working day.

KECK-HARDENER 859

Hardener for KECK-PUR dispersion 779.



Additives for Adhesives, Primer, Special- Adhesives

KECK-COLOURPASTE 9806

Used to dye PUR-adhesives and Polychloroprene-adhesives.

KECK-SPECIAL additive UV 930/3

Additive for KECK-PUR, KECK-PREN and Primer.
(It makes primer or glue visible under UV-lamp)

EK-PRIMER 861

1 component halogenation medium, pre-treatment of difficult rubber-soles.

Durability approximately 3 – 4 months.

2K-PRIMER 862/6 A+B

2 component halogenation medium. Pre-treatment of rubber- and TR-material. The freshly prepared mixture has to be processed within 12 hours.

EK-PRIMER 862/10

1 component halogenation medium with UV contrast medium in order to optically control the coating by means of UV light. Pre-treatment of light rubber- and TR-material.

Durability approximately 6 months.

PRIMER 863/1

Pre-glue for Polyamid and similar materials.

PRIMER 864/15

Pre-glue for Polystyrene

PRIMER 873/1

Pre-glue for Pebax

PRIMER 874

Pre-glue for EVA

PRIMER 730/15

Pre-glue for EVA

KECK-SPECIAL 925

Folding cement

KECK-SPECIAL 901

Adhesive primer to scorch NBR-mixtures to leather-uppers.

KECK-THERMO-POLYESTER 500

String adhesive Polyester

KECK-THERMO-POLYAMID 600

String adhesive Polyamid





FINISH

Finish-Products

*For finishing we can deliver a wide product range of proven products. When taking over the Salamander Finish products a few years ago, we have been able to supplement our product range. Here you can find a selection of **Leather-Fillers Base 1196** to „fill“ porous open leather surfaces before the finish is applied.*

We can provide different Finish variations

Wax-Creams for hand application Base 3663 is a classic shoe cream, as well as our **SIP-Cream LX, Base 7017** standard colourless and black, can be adjusted in many different colour tones

Wax-Spraying-Cream Base 4270 standard colourless and black, can be adjusted in many different colour tones. This Cream has to be polished after drying and is then leaving a nice shine and a soft grip

Leather-Balm 3626 for care treatment and to freshen up smooth leather, silk shine

Polish Base 1198 water-based, is mainly used for closed glazed leathers (Chevreaux), self-shine, nice grip

Combi-Finish Base 3605 (solvent-based) available in different shine levels, **standard 3605/3 C (silk shine)** and **3605/57 (high gloss)**, standard colourless and black

Nubuk- and Velours-Spray Base 3590 to freshen up and equalize the leather

Velour-Renovator 1190 colourless, water-based, for to freshen up the colour of a leather

Impregnation 3620 (solvent-based) and **1199/4** (water-based)

High Quality **Impregnation** (solvent-based) **Base 3387** (Trekking- and Outdoor-Shoes)

Fat-Finish 3523 (solvent-based) and **3630** (water-based) for leather with a high grease content, gives a nice, greasy, slushy grip

Leather-Fat 9091 (for hand application)

Silicone-Spraying-Paste 1182/7 oil-based, for use on leathers that are difficult to finish



Finish-Products

Additionally to our Finish product range we offer:

Leather-Edge-Paint (2148), (SIP 7015) and (2199), all water-based, to paint the leather edges of not completely dyed leathers.

The quality SIP 7015 is mainly used in the belt industry.

All Leather-Edge-Paints are available in different colour tones.



Leather Bottom and Edge Paint (5117)

water-based, also available in different colour tones

Different Grinding Waxes (Base 9199) and Polishing Waxes (Base 9190) standard colourless, also available in black and brown colour tones

Leather Repairing – Chemical Adjuvants

For the repairing of leathers our **KECK-Spraying-Colour 6960** is preferred, for application with a brush also our high quality **KECK-Wiping-Colour 6970**.

Both qualities have been developed as classic PUR-Colours, but as they are flexible and elastic, they are also ideal as Leather-Repairing-Colours.

These colours are available in almost all mixable colour tones.

Leather-Repairing-Colour 2198 water-based

In general for repairing preparation, we recommend our water-based **KECK-Leather-Repairing-Paste 2184** for smoothing the leather fibre.

For patent leather we have developed the product **Patent-Leather-Repairing-Paste 2183**.

As Repairing Paste for Polyurethane and PVC we recommend our **1-component-system** product **2187**, or our **2-component-system** Repairing-Paste **9810 (processed with Hardener 9811)**

For the repairing of metallic leathers our **Combi-Spraying-Colour Base 2360** is used.

Cleaners and Diluents

| | |
|--------------------------------|--|
| 561 | For cleaning of leather, Polystyrene, ABS, PUR, PVC surfaces, prior to application of finish-products or colours. |
| 10 | Aqueous product for cleaning of leather surfaces, prior to application of finish-products. |
| 318 | For cleaning of patent leather. |
| 430 | For cleaning of rubber-material ,prior to halogenation. |
| 229 | Universal cleaner and diluent |
| 91 | Universal cleaner and diluent |
| 951/16 | Special cleaner for PUR, often also as pre-treatment instead of roughening of the PU-material , prior to adhesion. |
| 472/2 | Cleaner against mycosia with mould fungus |
| 952 | Diluent for PUR-adhesives |
| 309 | Diluent for Screen-Printing-Inks |
| Cleaner for Silver-Pens | Depending on the nature and sensitivity of the leather dressing , differently aggressive adjusted products. |

Adjuvants

| | |
|-----------------|--------------------------------|
| 9084/2 | Last-Smoothener |
| SIP 7006 | Leather-Softener |
| 9192 | Pounding-Wax |
| 4297 | Bating for leather and elastic |
| 5556 | Leather-Hardener |
| 913 | Seam Sealing solvent-based |
| 780 | Seam Sealing water-based |



VARNISH & COLOURS

PUR-COLOURS

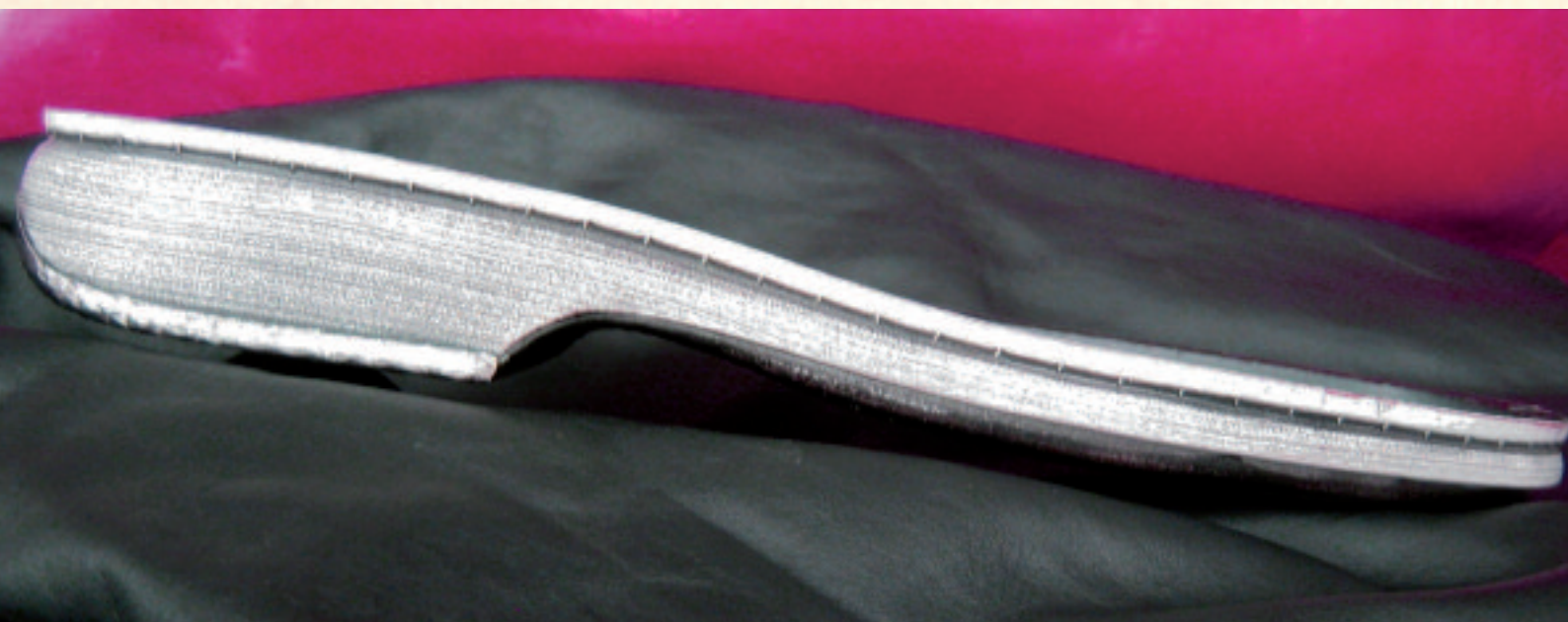
6960 Standard Spraying Colour, available in almost all mixable colour tones and shine levels

6970 Standard Wiping Colour, available in almost all mixable colour tones and shine levels

6900 PUR-Dipping-Varnish

6990 2K-PUR-Spraying-Colour, processed with Hardener 857/6, available in almost all mixable colour tones

6953 Especially developed for TPU, good covering of faults, mat Spraying-Colour. Ideal for the covering of small flow faults on the sole surface. Also usable on PUR



Varnish for Polystyrene and ABS

6860 Standard Varnish for heels for Polystyrene and ABS, available in almost all mixable colour tones and shine levels

6865 Standard Varnish for heels for ABS and Polystyrene, suitable for high humidity

6145 Special Varnish for covering and compensation of flow faults in the heel material

6830 Standard Curl- and Polishing Varnish for heels (used on pre-varnished heels)

6837 Standard Curl-Varnish (used on pre-varnished heels)

6838 Curl-Varnish with higher viscosity (used on pre-varnished heels)

6800 Special adjustment (lacquer shine)

6890 Velours-Effect-Varnish (used on pre-varnished heels)

6893/131 Effect-Varnish-Softgrip (used on pre-varnished heels)

9244/3 Wetting-Agent against drop formation (for cooling-agent in the heels production)

TR-Colours

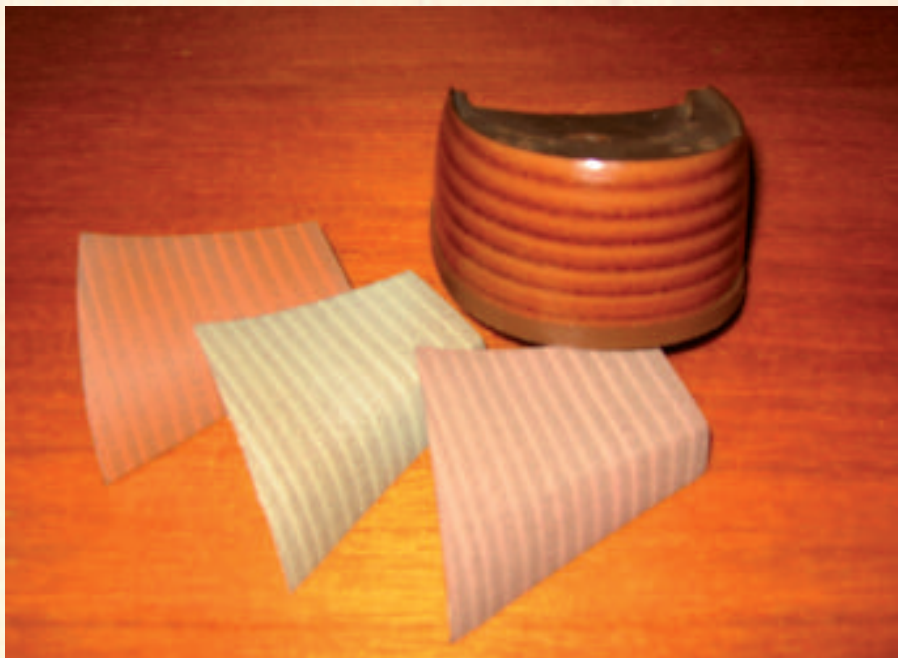
- 6705** Mat-Spray to equalize the surface (also with rubber grip)
- 6760** Standard Spraying Colour, available in almost all mixable colour tones
- 6714** Standard Wiping Colour, available in almost all mixable colour tones

Colours for Rubber and EVA

- 6143** Wiping Colour for rubber and EVA
- 6144** Spraying Colour for rubber and EVA
- 6990** 2K-Spraying Colour for rubber and EVA

PVC-Colours

- 6460** Standard Spraying Colour, available in almost all mixable colour tones and shine levels
- 6470** Standard Wiping Colour, available in almost all mixable colour tones and shine levels



Colours for Brushing

- 6715** Colour for brushing is available in almost all mixable colour tones, is mostly processed in combination with corresponding base colours. For receiving a Brush-Antique-Effect

Wiping Colours

- 6702** Multiple-Colour-Effect in combination with corresponding base colours, available in almost all mixable colour tones

Screen Printing Inks

- 8970 SPI** 2-component PUR Screen Printing Ink for PUR and PVC, processed with Hardener 857/3
- 8930 SPI** 1-component Screen Printing Ink for PUR and PVC

Both types are available in almost all mixable colour tones



IMC

In - Mould - Coating

With the technique of In-Mould-Coating the colouring of the PUR-mould-pieces is already done in the tool, this means that after demoulding the work-piece is already completely coated. The gloss- or dull stage of the patent surface is mainly controlled through the release agent.

This system offers some advantages in comparison to a later colouring:

- time and cost saving
- no cleaning of the parts that are to be coloured
- no efforts for colouring of big parts (with temporary storage for drying)
- extremely good adhesion of the coated layer
- high light fastness

The 1- component and 2- component In-Mould-Coats are used in different fields and are suitable for many PUR-foam systems from soft to semi-rigid and rigid systems.

These systems are mainly used in the technical industry as for example with steering wheels, for seats and armrests in tracks, busses and airplanes, seat surfaces and seat backs for office chairs, orthopaedic parts (prothesis), mats for workplaces, levers and switches for building machines, tractors and much more purposes.



- | | |
|---|--|
| 6991 | 2- component In-Mould-Coat (IMC) (Pot-Life approximately 2-3 hours), to be processed with Hardener 857/6 |
| 6993 | 2- component In-Mould-Coat (IMC) (Pot-Life approximately 4-5 hours), to be processed with Hardener 857/6 |
| 6998 | 2- component In-Mould-Coat (IMC) (Pot-Life approximately 4-5 hours), to be processed with Hardener 857/6 Hazardous Classification: A2 |
| 6995 | 2- component In-Mould-Coat (IMC) for soft-foam (Pot-Life approximately 4-5 hours), to be processed with Hardener 857/6 |
| 6977 | 1- component In-Mould-Coat (IMC) |
| All In-Mould-Coats that are solvent-based can be adjusted in nearly all mixable colour tones. | |
| 1300 | 1-component In-Mould-Coat (IMC) water-based |
| 1305 | 2- component In-Mould-Coat (IMC) water-based, to be processed with Hardener 848/1 (Pot-Life approximately 8 hours) |



RELEASE-AGENTS

Release-Agent for Mono-Polyester

8150 High-Solid Release-Agent, base: synthetic oils, surface: glossy, solvent-based
Type 8150 is available in different graduations
Also available as a 100% concentrate (Type 9722/100)

9758 Base: synthetic oils and waxes, surface: silk gloss, solvent-based

Keck-Release-Emulsion (tin-free)

1701 Base: synthetic oils, water-based
Type 1701 is available in different adjustments, also as a concentrate

Release-Agent for Double-Density-Polyester (PU/PU, PU/TPU and Rubber/PU)

1502/17 FME Base:
1502/85 E synthetic oils and waxes,
surface: silk mat

1502/272 Base:
synthetic oils and waxes,
surface: mat

1502/121 SF Classical silicone-free
1502/123 SF types, surface: mat;
1502/150 SF very good adhesion,
suitable for all
applications (PU/PU;
TPU/PU; Rubber/PU)

1502/156 SF Especially for application
on TPU/PU and Rubber/PU



All Release-Agents of the Type 1502 are solvent-based

8350 High-Solid Release-Agent, Base: synthetic oils, solvent-based

All Release-Agents without Silicones are marked with „SF“ (silicone-free)

PUR-Mould-Cleaner

9791/1 Classic Mould-Cleaner to remove residues of Release-Agent and Polyurethane

580/1 Mould-Cleaner (ultra-sonic system)

661 Hot-Cleaner for moulds and screws

Release-Agent for Mono-Polyether

- 8200** Base: synthetic oils, surface: glossy, solvent-based
- 9530/20 B** Base: synthetic oils and waxes, surface: glossy, solvent-based
- 8650** Base: synthetic oils and waxes, surface: silk gloss, solvent-based
- 1601** Base: synthetic oils and waxes, surface from silk mat to mat, solvent-based
- 1801** Base: synthetic oils and waxes, water-based

Release-Agent for Double-Density-Polyether

- 1602** Base: synthetic oils, surface: from glossy to silk gloss, solvent-based

High-Solid Release-Agent for Integral Skin Foam

- 8650/87** Base: synthetic oils and waxes, solvent-based
- 1804/1** Base: water-based Emulsion, surface: mat

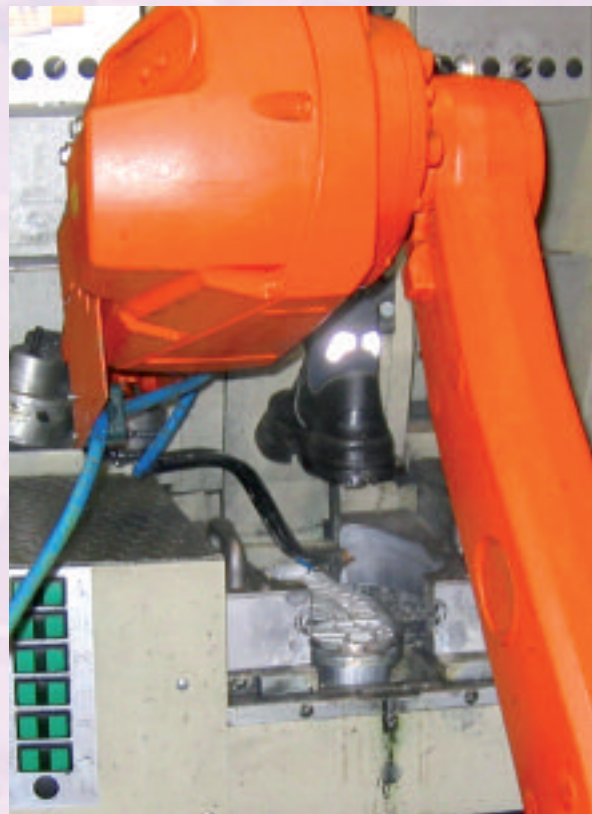
Release-Agent for PUR-Cold-Foam

(cushion foam for mattresses and seats)

- 8660** Base: synthetic oils and waxes, solvent-based
- 1803** Base: water-based, different adjustments possible, e.g. for dry, open cell surfaces or closed, greasy surfaces

Release-Agent for further materials

- 9279** Release-Agent-Concentrate for vulcanized rubber, water-based
- 9177** Release-Agent for polystyrene, solvent-based
- 1771** Release-Agent-Concentrate for EVA, water-based



Due to the different contents, which might separate, we suggest to stir all Release-Agents before and during processing. Regarding all applications of our Release-Agents, in case the demoulded soles/parts are lacquered afterwards, it is most important that user carries out sufficient lacquering trials, concerning adhesion and abrasion of the lacquer.



PUR-COLOURING- PASTES

PUR-Colouring-Pastes (basics and colour-adjustments)

9815 suitable for polyether and polyester, usage: batch-system

1903 suitable for polyether and polyester, usage: batch-system and dosing unit

1902 suitable for polyether and polyester, usage: batch-system and dosing unit, phthalate-free adjustment

Adjustments in almost all requested colour tones

All PUR-Colouring-Pastes can be fitted with an uv-stabilized system

PUR-Colouring-Pastes, black

Polyether

1901/700 usage: batch-system or dosing unit

Polyester

9815/10 F usage: batch-system (higher viscosity)

1903/50 usage: batch-system or dosing-unit

Polyether and Polyester

1901/550 usage: batch-system or dosing unit

1920/50 usage: batch-system or dosing unit

1902/2 usage: batch-system or dosing unit
phthalate-free

1903/710 usage: batch-system or dosing unit



PUR-Colouring-Pastes, white (for Polyester and Polyether)

1920/300

1903/708 All types are suitable for usage as batch-system or with dosing unit
All types are uv-stabilized

1903/300

1902/300 in addition: phthalate-free

Notes:

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Remark:

The information contained herein is based on our technical knowledge and experience.

Due to the various possible influences during processing and application, the user should take responsibility to determine the suitability of the product for the intended purpose of use.

User should thoroughly test any application.

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