



ADHESIVES

SPATULA – AND SPILLMASSES

CLEANSERS

RIGO® – Chemie
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RIGO[®]-Chemie offers a whole string of adhesive – systems:

Dispersion glues

2K – epoxiglues

polyurethaneglues

PVC–glue

neoprenglue

universalglue

special glues

In particular most of the 2–komponent–epoxiglues can be delivered as spatulamass or as spillmass.



Furthermore we are able to produce our products according to the demands of our customers. So it is possible to manufacture especially colored glues, glues with specific viscosity or special properties like antistatic. It is also possible to deliver special produced glues in small amounts.

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DISPERSION GLUES

In the field of aqueous dispersions RIGO®-Chemie offers a broad scope of products.

This includes f.e.:

Dispersions

- ◆ for covering paper and cardboard
- ◆ for gluing plastics and wood
- ◆ for gluing plastic materials in electronic industry
- ◆ for sealing of porous surfaces
- ◆ for laminating paper
- ◆ for gluing of plastics to porous surfaces



Furthermore

- ◆ sticking glue for foils and lables
- ◆ dispersions for fibre flakes
- ◆ anti slip covering

An overview is given on the next page

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RIGO®-Bond Dispersion glues – Overview

Denotation	viscosity mPa.s. (20°C)	stability	special	applications
RIGO-Bond C- 20 dispersion glue	4000 ± 500	water (DIN 53778) oil, diluted acids and bases	non inflammable agrees with FDA§175.105 (Adhesives) monomers positive list of EEC 90/128 directive	Plastic foils and preformed workpieces with different materials, well suited for paper and cardboard because of its suitability for foods
RIGO-Bond C- 21 fibreflakes-glue	1500 – 1800	water, rub off	also with coarse flakes good binding and rub off	fixating of fibreflakes to plastics and wood
RIGO-Bond C- 22 dispersion glue	600 ± 50		non inflammable, intoxic, no ingredients, that are agressive to copper	electronic industry—for gluing of plastics like PVC, polystyrene, triacetate, with different materials and metal
RIGO-Bond C- 23 dispersion-sticking glue	1500 ± 400	aging	sticking glue with high flexibility	mainly for production of sticking tapes or foils / etikettes
RIGO-Bond C- 24 dispersion glue	37000 ± 3000	high temperature resistance	quick binding, high solidity, flexibility	paper, cardboard, felt, wood with themselves and with each other, coating and sealing of porous surfaces
RIGO-Bond C- 26 dispersion glue	13000 ± 2000	water, diluted acids and bases, oil, petrol	high flexibility, very good constancy	mainly gluing of plastics like PVC to absorbant undergrounds
RIGO-Bond C- 27 dispersion glue	2 – 10	water, diluted acids and bases, oil, petrol	quick bonding, high adhesiveness, high flexibility, high constancy	based on its high adhesiveness with a broad scope
RIGO-Bond ARLD anti slip laqueur	1 – 5	water, diluted acids and bases, oil, petrol	quick bonding, high adhesiveness, high flexibility, high constancy	filled with granulated minerals as anti covering for plastics and metal

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2-KOMPONENT EPOXI GLUES

In this field RIGO®-Chemie offers a big variety of proved materials and of special materials, produced on demand of customers.

These are f.e.:

glues – spill masses – coatings – spatula masses

The properties of the products can be tuned to the wish of the customers like:

firmnes – hard like stone or highly flexible

processing time from 5 minutes to 2 hours

viscosity from thin like water to thick spatula masses or thixotrope

colour from colourless to multiple colours

scope: wood, glass, metal, plastics, ceramics, concrete, stone



Two examples of our customer specific applications are f.e.:

- ◆ Spilling mass for production of highly flexible and antistatic supports
- ◆ Adhesive for gluing materials outdoor / shipbuilding, that is spreadable but does not drop

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RIGO®-Bond epoxi glues standards – overview

denotation	viscosity A) resin [mPa.S. (25° C)] B) hardener [mPa.S. (25° C)]	potlive (20° C)	hardening time (20° C)	stability	colour	specials
RIGO-Bond C- 48	plasticine	5 – 10 min.	45 min.	hard	glasfibre- white	application under water
RIGO-Bond C- 49	A) 400 – 600 B) 4000 – 5000	2 h	24 – 36 h	hard	slight brown / clear	resin can be delivered thixotrope
RIGO-Bond C- 50	corresponding to C- 49, filled				slight brown – grey	
RIGO-Bond C-53	A) 400 – 600 B) 300 – 400	2 h	12 h	hard	colourless – transparent	very good adhesion to high-grade steel
RIGO-Bond C- 54	corresponding to C-53 , filled				slight beige or white	white colour proove to sunlight
RIGO-Bond C- 55	A) 400 – 600 B) 1200 1600	30 min.	12 h	hard	colourless, transparent	
RIGO-Bond C- 56	corresponding to C-55 , filled				grey or white	white colour proove to sunlight, temp. resistance to approx. 150 °C
RIGO-Bond C- 57	A) 400 – 600 B) 3000 – 5000	45 min.	24 h	not so hard	slight yellow / clear	good adhesion also to difficult surfaces
RIGO-Bond C- 57w	corresponding to C-57, here filled with white pigments					
RIGO-Bond C- 59	A) 400 – 600 B) 12000 – 15000	5 – 10 min.	2 – 3 h	tough / elastic	slight yellow / clear	resin can be delivered thixotrope (50 ml double cartridge)
All times are approximate values, they can be shortened by heat and on the other side prolonged <u>considerably</u> at temperatures below 15 °C						
The temperature resistance of the hardened systems is in the range of 110 – 120 ° C , slightly higher temperatures only for short time						
The hardened epoxy sytems are resistant against water, oil, petrol, many solvents and diluted acids and bases.						

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PU(Polyurethane)–GLUES

This area of our production includes a variety of customer specific products with different properties.

The scope of application is in the area of gluing

- ◆ plastics like Polyamide, Polyester, Polycarbon
- ◆ metal
- ◆ wood or stacked material
- ◆ wood and plastic in outdoor applications
- ◆ rubber
- ◆ stone / concrete to plastics



Examples of customer specific applications are f.e.:

- ◆ Glue; highly viscous and visable even in smallest amounts
- ◆ Coating for diminishing of slippierness between metal and plastics

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SOLVENT BASED ADHESIVES

Although RIGO®-Chemie allways tries to lower the use of solvents in the production program, there are some glues that can show their quality only this way.

At first place to mention in this context is our

contact or universal glue

◆ **extremely high temperature stability without second component**

◆ short ventilation time

◆ seawater resistant

◆ flexible

◆ very good adhesion on nearly all materials like

all kinds of rubber

different textures

raw, primed and lacquered metals

wood

hardboard

many plastics

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Furthermore we are producing the following solvent based adhesives:

- ◆ adhesive for hard PVC and other hard plastics
for gluing of plastic with itself or with wood, cardboard, paper etc.
- ◆ glue for soft PVC foils
mainly for soft PVC, artificial leather from PVC with itself or with leather, rubber, textures, wood, hardboards, cardboard.



- ◆ foil glue
fluid for swelling and welding of PVC – pond foils
- ◆ foam glue
fluid for foamed material like isolating plates inclusive Styropor® or foamed materials in upholsteries
- ◆ quick drying glue for paper
for quick gluing of paper or cardboard – stays flexible and does not wave the paper.

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FURTHER PRODUCTS ARE:

- ◆ Capping cement
cement for the manufacture of small lamps, indicator lamps, neon tubes and the like
- ◆ 2 – komponent hardfoam
slowly growing foam for smooth filling of chinks and cavities
(no assembly foam in spray can)



- ◆ latex glue
- ◆ caoutchouc solution
- ◆ polyester resin
- ◆ spatulamass from polyester
- ◆ industrial second glue

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The scope of cleansers produced by RIGO[®]-Chemie includes the following products:

rim cleanser

insect remover

plastics cleanser

car window cleanser

degreaser / universal cleanser

window cleanser

EDV-cleanser

acidic industrial cleanser



as well as maintenance fluids for

plastics and high grade steel

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All cleansers of RIGO®–Chemie arose from the department of Autolyte® metal marking and so you will find them under this name. The range of cleansers includes the following three areas:

◆ ecologically friendly cleansers

All cleansers of RIGO®–Chemie – except the acidic industrial cleansers – are based on vegetable raw materials and are biologically reducable for more than 99%. They are free of acids and ecologically friendly. All cleansers are strongly dissolving dirt and mild to all surfaces, especially suited for surfaces from plastics

◆ acidic industrial cleansers

Besides the acid free cleansers RIGO®–Chemie offers a series of acid based cleansers for cleaning metals or for diluting wax. These cleansers are exclusively for the industrial user.

◆ maintenance

All maintenance fluids are based on silicon oils. They protect the surfaces with a thin and stable film.

The plastic maintenance renews the exhausted and old surfaces and formes a thin film. Soft materials like neoprene are kept flexible beyond it.

The steel maintenance protects the metal surface from fingerprints and dust. The silky gloss of brushed steel is not affected. The protecting film can be removed with a simple washing up liquid at every time.

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