

Decotron® 23 is a water-based cleaning fluid designed to remove solder paste from stencils, mainly directly in screen printing machines - DEK, MPM, EKRA, ERSA and others.

Areas for Use of Decotron® 23:

1. unsoldered solder paste – stencils, PCB misprints, squeeeges	highly recommended	screen printer
2. SMD adhesives, uncured	<i>unrecommended</i>	
3. lead-free flux residues	<i>unrecommended</i>	
4. no-clean flux residues	<i>unrecommended</i>	
5. resin fluxing agent residues	<i>unrecommended</i>	
6. hardened conformal coatings	<i>unrecommended</i>	



Stencil



Screen printer

Cleaning Process Using Decotron® 23:

- > Decotron® 23 is intended for direct use, no need to dilute!
- > Pb-free compatible – Decotron® 23 is developed also for the cleaning of Pb-free solder pastes.

1.1. unsoldered solder paste – stencils and PCBs’ misprints:

Process stages:	<i>1. cleaning</i>
Cleaning fluid:	<i>Decotron® 23</i>
Time (in minutes):	<i>NA, depend on type of screen printer</i>
Temperature (°C):	<i>room temperature</i>

Decotron® 23 Qualities:

- > Ph neutral and highly compatible no negative influence on PCBs materials, stencils and components of the cleaning devices;
- > suitable for closed cleaning processes;
- > no flash point – even if heated extremely no self-ignition occurs, also Decotron® 23 cannot be set on fire by direct fire;
- > cleaning results better than with solvent cleaning fluids, with the advantages of the water base;
- > water base increases safety at work;
 - > solvent cleaning fluids evaporate heavily and their vapors are harmful to health, in larger amounts very dangerous;
 - > solvent cleaning fluids very often have a very low flash point which increases the risk of inflammation of the liquid;
- > easy to use – no need of a special training;
- > able to clean also at the room temperature – optimum cleaning results in terms of time and the cleaning quality are reached at temperatures around 20°C;
- > tenside-free technology – no solid residues on the surface being cleaned in comparison with tenside cleaning fluids being used for these cleaning applications, as well;

Environmental Information:

- > environment-friendly – completely biodegradable;
- > HMIS III, evaluation of the overall product hazardousness:

Health - 0 | 1 | 2 | 3 | 4

Flammability - 0 | 1 | 2 | 3 | 4

Reactivity - 0 | 1 | 2 | 3 | 4

HMIS evaluates the product from the three points of view above, the evaluating parameters are from the minimum risk (0) to the maximum one (4); HMIS rating criteria issue national paint and coating association NPCA (www.paint.org).

- > ROHS – in accordance with the regulations, does not contain any hazardous substances;
- > does not contain dangerous halogens.

Physical and Chemical Properties:

Product appearance	<i>clear</i>
Odour, aroma	<i>none</i>
Flash point (°C/°F)	<i>none</i>
pH value	<i>neutral</i>
Density (g/ccm) at 20°C (68°F)	<i>0.98</i>
Boiling point (°C/°F)	<i>98 - 213 / 203 - 415</i>
Freezing point (°C/°F)	<i>below - 5 / 11</i>
Surface tension (mN/m) at 25°C (77°F)	<i>27.38</i>
Vapour pressure (mbar) at 20°C (68°F)	<i>28.4</i>
Water solubility at 17°C (62,6°F)	<i>soluble</i>

Technical Support:

DCT offers, free of charge, the technical support, consultation and assistance directly on your manufacturing premises to find the most suitable solution.

To book the date of our visit please contact your DCT representative.

Trial Tests:

To book the date of the trial tests please contact your DCT representative.

When setting the cleaning process, DCT offers the testing of cleaning fluids, free of charge, in the full range directly at the customer's, in the amount as needed to fill and run the cleaning technology during the trial test. The duration and range of the trial tests are individual. If the criteria requested are met, the liquid stays with the customer and the partly used cleaning fluid is paid. If the requested cleaning results are not met, DCT takes the used cleaning fluid back without any request for compensation.

Compatibility:

highly compatible - no negative influence on PCBs materials, stencils and components of the cleaning devices.

Liquidation of used Decotron® 23:

For the liquidation of Decotron® 23 used please contact your company for waste management. While Decotron® 23 has been classified as no hazardous water-base product, the substances it contains after the cleaning cycles as the solder pastes, fluxing agents, SMD adhesives etc. are classified as hazardous and Decotron® 23 used must be liquidated properly by a responsible company.

Packing:

Decotron® 23 is standardly delivered in 25 litres PP cans. Samples are packed individually, should you need a sample, please contact your DCT representative.

Transport:

Decotron® 23 is classified as no hazardous matter, is not subject to any special request for the transport and ADR. No special packing for the land transport and air carrying requested.

Handling, Safety at Work:

DCT recommends to the operating staff to use safety spectacles when working with Decotron® 23.

Storage:

Being the non-flammable product, Decotron® 23 does not require any special placement, should be stored in the original packing at the temperature from -5 to 30°C

Shelf life:

The maximum usable life for this product is 24 months from the production date, if stored as recommended.

Decotron® is a registered trademark of DCT Czech; Issued: 03/04/2013