

Ce document vous est fourni par SUPRATEC Syneo, partenaire exclusif de CHT en France.

www.supratec-syneo.com



ACC15

Characterization

ACC15 is a low viscosity, 1-component, condensation curing silicone coating. The uncured product can be applied by pouring or brushing and is readily cured to a tough, transparent rubber. It can be used to coat printed circuit boards to prevent ingress of water and environmental contaminants.

Key Features:

- -UL listed file number E493561
- -Room temperature cure or mild heat acceleration at 60°C
- -Low viscosity
- -100% solids
- -Fluorescent UV aid for production QA checks
- -Excellent adhesion to many substrates
- -Low odour
- -RoHS compliant

Technical Data

ACC15	1			
Tested at 25°C / 55 +/	Tested at 25°C / 55 +/- 5% Humidity			
Translucent, pale yellow				
Liquid				
1180		mPas		Brookfield
12		min		AMB001
40		Min		
	After 7 days at 25°C / 55 +/- 5% Humidity on a 3 mm thick test sheet			
310		ppm/°C		
930		ppm/°C		
18				ASTM D 2240-95
1.02		g/ml		ASTM D70
>150	>150			ASTM D93
100		%		
250-350)	mPas		Brookfield RVF
-55 - +20	00	°C		
Electrical properties				
1.88E+15	ohm*cm		ASTM D-257	
8.59E+14	ohm		ASTM D-257	
18.5	kV/mm		AST	M D-149
	Tested at 25°C / 55 +/ Translucent, pa Liquid 1180 12 40 After 7 days at 25°C / 55 Humidity on a 3 mm thic 310 930 18 1.02 >150 250-350 -55 - +20 Electrical properties 1.88E+15 8.59E+14	Translucent, pale yellow Liquid 1180 12 40 After 7 days at 25°C / 55 +/- 5% Humidity on a 3 mm thick test sheet 310 930 18 1.02 >150 \$ 100 250-350 -55 - +200 Electrical properties 1.88E+15 0hm*cm 8.59E+14 ohm	Tested at 25°C / 55 +/- 5% Humidity Translucent, pale yellow Liquid 1180 mPas 12 min 40 Min After 7 days at 25°C / 55 +/- 5% Humidity on a 3 mm thick test sheet 310 ppm/° 930 ppm/° 18 1.02 g/ml >150 °C 100 % 250-350 mPas -55 - +200 °C Electrical properties 1.88E+15 ohm*cm 8.59E+14 ohm	Tested at 25°C / 55 +/- 5% Humidity Translucent, pale yellow Liquid mPas 12 min 40 Min After 7 days at 25°C / 55 +/- 5% Humidity on a 3 mm thick test sheet 310 ppm/°C 930 ppm/°C 18 1.02 g/ml >150 °C 100 % 250-350 mPas -55 - +200 °C Electrical properties AST 1.88E+15 ohm*cm AST 8.59E+14 ohm AST



Ce document vous est fourni par SUPRATEC Syneo, partenaire exclusif de CHT en France.

www.supratec-syneo.com



Storability / Storage

With a proper storage the product will hold for approx. 12 months if stored properly below 5 - 32°C and protected from frost in a dry place in closed original containers.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Application Technique

Application

The bulk product may be poured or brushed onto the circuit. Pouring or brushing will give a film thickness of 100 to 1000 microns. The product contains an UV trace to allow inspection of the board after coating to ensure complete and even coverage. Boards should be thoroughly cleaned before coating for best adhesion / performance. Coating over no clean fluxes is possible so long as other surface contaminants are not present.

Cleaning

The boards should be thoroughly cleaned before coating. This is required to ensure that satisfactory adhesion to the substrate is possible. Some flux residues must be removed, as they become corrosive if left on the PCB. ACC manufacture a range of 100% Ozone Friendly cleaning products - both solvent and water based. All clean to military standards (please contact ACC for further information).

Dip coating

This is not recommended for large scale production, small baths of < 5 litres are suitable but the ACC15 must not be exposed to the atmosphere for > 10 minutes during any coating campaign and must be returned to the original container and sealed. Please note that continual use of

ACC15 by this method will reduce the life of the product and may result in poor coating quality.

Brushing

Ensure the coating has been shaken thoroughly. The coating should be used at room temperature (above 16C) using a good quality brush apply the product gently such as to achieve a good coating and not to disturb wiring. The board should be left to cure at 16 to 60°C with a relative humidity of >40%.

Spraying

Dispensing platforms include:

Nordson SL940

Applicator SC300 monofilament spray, 0.71mm low cavity. 50 to 90 mm/second and 40 psi pressure.

Without dilution a coating thickness of 400 – 500 microns can be achieved which is touch dry in 12 minutes at 25°C and 55% humidity.

Using applicator SC300 swirl coat, 0.61mm low cavity. 80 – 120 mm/second and 25 psi.

At the maximum recommended dilution ratio of:

50 parts ACC15

50 parts ACC34 or ACC34UV

a coating thickness of 150 - 200 microns can be achieved which is touch dry in 16 minutes at 25° C and 55% humidity.

PVA Delta 6:

Applicator FCS300 ES



Ce document vous est fourni par SUPRATEC Syneo, partenaire exclusif de CHT en France.

www.supratec-syneo.com



Without dilution a coating thickness of 400 - 500 microns can be achieved which is touch dry in 12 minutes at 25°C and 55% humidity.

At the maximum recommended dilution ratio of:

50 parts ACC15

50 parts ACC34 or ACC34UV

a coating thickness of 150 - 200 microns can be achieved which is touch dry in 16 minutes at 25°C and 55% humidity.

Drying time / curing conditions

For brushing and manual spraying the film will be touch dry after 12 minutes at 23°C / 60% humidity). The full properties of the coating will be obtained after 24 hours at room temperature –curing can be accelerated by using an oven at 60°C.

Double coating

Whilst this should not be normally required, a second coating may be applied after the first coating is cured to ensure the two coats bond together.

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

Edition: July 2019 CHT R. Germany GMBH

Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com