



# PROTAVIC<sup>®</sup> ACH 30200

A 28147-08 A

## DEFINITION

High silver content mono-component hybrid resin for die attach. **PROTAVIC<sup>®</sup> ACH 30200** is useful when a high level of thermal and electrical conductivity combined with a good properties of moisture resistance is required.

## PRODUCT DESCRIPTION

Appearance	viscous liquid	
Odor	faint	
Color	silver	
<b>Guaranteed specification</b>	<b>Standard</b>	<b>Method</b>
Cone and plate viscosity (5 rpm – 25°C)	10000 ± 1500 mPa.s	NFT 51211
<b>Other informations</b>		
Pot life* at 20 ± 2°C	1 week	
Viscosity increase at 20°C after 24h	less than 1%	
Density	5 approx.	
Thixotropy index	about 4.5	
Possible curing cycles	15 minutes at 150°C 15 minutes at 200°C	
Storage stability	- 6 months at -20°C	

\* defined as 100% viscosity increase.

## APPLICATION PROPERTIES

The **PROTAVIC<sup>®</sup> ACH 30200** adhesive combines an excellent adhesive properties. Its good latency enables it to be kept at 20 ± 2°C for 1 week with a little increase of viscosity, so the viscosity remains virtually unchanged throughout the working day. The long pot life ensures that the product remains at a reasonably constant viscosity and facilitate application. Its rheology makes the product useful for an application by dispensing.

## METHOD OF USE

1. Take the package out of the freezer at not more than 1 hour before use in order to prevent any re-absorption of moisture.
2. Work on clean surfaces or clean all surfaces in order to remove any dirt or grease. Do not deposit the adhesive on a substrate which has just been cleaned with chlorinated solvents.
3. Apply the adhesive (by dispensing)
4. Cure using one of the curing cycles compatible with the components, the substrate and the manufacturing conditions.

## **FIELDS OF USE**

The **PROTAVIC® ACH 30200** adhesive excellent properties make it especially suitable for use in structural sticking, were a good moisture resistance and high level of thermal and electrical conductivity are required.

### **1. PHYSICO-CHEMICAL PROPERTIES**

<b>PROPERTIES</b>	<b>METHODS</b>	<b>UNITS</b>	<b>RESULTS</b>
Shear strength (2x2 mm <sup>2</sup> die on Ag/Cu L/F)	After polymerization at 150°C for 15 minutes and 15 minutes at 200°C	kg/cm <sup>2</sup>	350
SHORE D hardness	NFT 51109	/	86
Glass transition temperature	TMA	°C	55 – 60°C
Coefficient of thermal expansion	TMA	ppm/°C	20
Typical electrical conductivity	ECA 1	mΩ.cm	0.01
Typical thermal conductivity	Hot Disk standard	W/m.°K	29.0

## **PRECAUTION IN USE**

Refer to the attached material safety data sheet

## **PACKAGING**

The **PROTAVIC® ACH 30200** adhesive is supplied in 50 g syringes.

*The information contained in this data sheet corresponds to the present state of our knowledge ; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover, the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.*