Product Information

Industry

Hardener H17

FEATURES

- Low colour
- High reaction speed
- Chemical resistance

COMPOSITION

- Cyclic ethyleneamine

Hardener H17 is mainly used in combination with liquid epoxies. Characterized by fast curing, even in the presence of high humidity, it is particularly suitable for adhesives and repair fillers. Excellent resistance to distilled water, alkalis and cleaning solutions.

APPLICATIONS

- Adhesives and repair fillers, accelerator for cycloaliphatic amines in flooring and coatings.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local sales representative prior to writing specifications on this product.

Properties	Unit	Value
Aspect	Visual	Liquid
Color	Visual	Yellowing
Density at 23°C	g/cm^3	1.00
Viscosity at 23°C	mPa.s	210
Equivalent weight {H}		89
Curing with standard Bisphenol-A epoxy resin (DGEBA, EEW=190)		
Mix ratio (resin : hardener)	pbw	100 : 50
Viscosity of the mixture	mPa.s	1100
Pot life at 23°C (150g)	Minutes	7
Gel time at 23°C (150g)	Minutes	8 - 9
Demoulding 3mm at 25°C	Minutes	120
Demoulding 3mm at 60°C	Minutes	75
Exothermic peak (150g)	°C	214
Hardness	Shore D	82
Flexural modulus	MPa	3260
Flexural strength	MPa	139
Tensile strength	MPa	74.9
Elongation at break	%	10.0
Compressive modulus	MPa	1210
Compressive strength	MPa	61.5
Linear shrinkage [500x50x10mm]	%	1.5
Glass transition (DSC)	°C	77

MIXING

Weigh resin and hardener in the indicated ratio and mix until a homogeneous compound is obtained.

Warning! Epoxy resins and amines can generate a highly exothermic, uncontrolled reaction, with decomposition above 250°C. Prepare limited quantities of material and proceed with application.

STOICHIOMETRY

Calculation of the grams of hardener required for 100g of resin:

g of hardener = $\frac{\text{AHEW}}{\text{EEW}} \times 100$

AHEW= amino equivalent
EEW= epoxy equivalent

POTLIFE E GELTIME

The Potlife or time of use of the mixture is normally the time required for an increase equal to twice the initial viscosity. Both Pot-life and Gel-time depend on mass and temperature: the greater the mass, the faster the reaction will be. The higher the temperature, the faster the reaction.

CURING

The system cures at room temperature.

HANDLING PRECAUTIONS

The information for a correct and safe handling of the products are contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks for health and environment and for suitable protective devices to be adopted. Share the safety data sheets with all the staff involved in the use of the products.

PACKAGING

The product is supplied in 1kg, 25kg containers.

USABLE LIFE - STORAGE

Store in the original, unopened containers at a temperature between +15°C and +35°C. Be sure to close containers after use. This material, when stored under the specified conditions, has a shelf life of 24 months from the date of manufacture.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

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