

SIRION[®] VP 2080

PRODUCT
DATA SHEET
REC/2080/0314/1

Description

Solid phenolic hardener for epoxy resins, containing 2.5 wt % of polyacrylate flow modifier. Lower reactivity than Sirion VP 2081

Applications

Sirion VP 2080 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	250 ± 30	g/eq.	
Glass transition temperature (2)	50	°C	ASTM D 3418
Viscosity at 150°C (3)	700	mPa.s	SIR 10391
Suggested ratio, phr	30 – 35 with Eposir 7178 PG 20 – 25 with Eponac 85	g	

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Sirion[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

SIRION[®] VP 2081

PRODUCT
DATA SHEET
REC/2081/0314/1
Revised: September 2016

Description

Solid phenolic hardener for epoxy resins, containing 2.5 wt % of polyacrylate flow modifier.

Applications

Sirion VP 2081 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	250 ± 30	g/eq.	
Glass transition temperature (2)	50	°C	ASTM D 3418
Viscosity at 150°C (3)	700	mPa.s	SIR 10391
Suggested ratio, phr	30 – 35 with Eposir 7178 PG 20 – 25 with Eponac 85	g	

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Eposir[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

SIRION[®] VP 2082

PRODUCT
DATA SHEET
REC/2082/0014/1

Description

Solid phenolic hardener for epoxy resins, containing 2.5 wt % of polyacrylate flow modifier. Faster reactivity version than Sirion VP 2081

Applications

Sirion VP 2082 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H - M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	250 ± 15	g/eq.	
Glass transition temperature (2)	50	°C	ASTM D 3418
Viscosity at 150°C (3)	700	mPa.s	SIR 10391
Suggested ratio, phr	30 - 35 with Eposir 7178 PG 20 - 25 with Eponac 85	g	

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Eposir[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

SIRION[®] VP 2083

PRODUCT
DATA SHEET
REC/2083/0314/1

Description

High reactivity solid phenolic hardener for epoxy resins.

Applications

Sirion VP 2083 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	220 ± 20	g/eq.	
Glass transition temperature (2)	47	°C	ASTM D 3418
Viscosity at 150°C (3)	300	mPa.s	SIR 10391
Suggested ratio, phr	30 – 35 with Eposir 7178 PG 20 – 25 with Eponac 85	g	

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Eposir[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

SIRION[®] VP 2084

PRODUCT
DATA SHEET
REC/2084/0314/1

Description

Solid phenolic hardener for epoxy resins.

Applications

Sirion VP 2084 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	250 ± 30	g/eq.	
Glass transition temperature (2)	50	°C	ASTM D 3418
Viscosity at 150°C (3)	700	mPa.s	SIR 10391
Suggested ratio, phr	30 – 35 with Eposir 7178 PG 20 – 25 with Eponac 85	g	

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Sirion[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

SIRION[®] VP 2085

PRODUCT
DATA SHEET
REC/2085/0314/1
Revised: August 2018

Description

Solid unmodified phenolic hardener for epoxy resins. The product does not contain curing accelerator and flow agent.

Applications

Sirion VP 2085 is suitable for formulation of decorative or protective epoxy based powder coatings. When formulated with epoxy resins, cured coatings with good flexibility and chemical resistances can be obtained. It is useful, in combination with other Sirion VP 208xx series products, for optimizing the reactivity of powder coating formulations which already contain a curing accelerator.

Sales specification

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	200 max.	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenecol-monobutylether .

Typical Properties

Property	Value	Unit	Method
Active hydrogen equiv. weight	250 ± 30	g/eq.	
Glass transition temperature (2)	52	°C	ASTM D 3418
Viscosity at 150°C (3)	700	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

(3) ICI Cone & Plate Viscosimeter

Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

Safety

The product is not labelled as flammable. Please consult safety data sheet for complete details.

Eposir[®]: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.