PROSID® 411

PRODUCT DATA SHEET
PROSID 411/051305/1

Description
Hardener for outdoor powder coatings based on *N,N,N',N'*-tetrakis(2-hydroxyethyl) hexanediamide.

Applications
PROSID® 411, in combination with carboxyl functional resins, such as polyester or acrylic, enables to obtain powder coatings with excellent weather resistance, suitable for outdoors applications.

Sales specifications

Property	Value	Unit	Method
Melting range (capillary)	120 … 126	°C	SIR 10000
Weight loss at 105°C	1 max	%	SIR 10004
Colour (50% water solution)	50 max	Pt/Co scale	SIR 10007 (ASTM D 1209)

Typical Properties (available on request)

Property	Value	Unit	Method
Appearance	white solid grains with powder		SIR 10010
Hydroxyl number	640 … 720	mg KOH/g	SIR 10682 (DIN 53240-2)
Bulk density	0.65 … 0.75	g/ml	SIR 10013

Supply Form
Product is available as fine granules packed in 20 or 25 kg polyethylene bags.

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 (25°C) the product should have a stability of one year.

Safety
The product is not flammable and no toxic effect has been determined.
Further information are provided in the relevant safety data sheet.

PROSID® H30A

PRODUCT DATA SHEET
PROVISIONAL
PROSID H30A/010701/1

Description
Masterbatch of 30% hardener based on β-hydroxyalkylamide with polyester resin suitable for the formulation of outdoor powder coatings.

Applications
The hardener Prosid® H30A allow to get, in combination with carboxylated polyester resins, powder coatings with a very high outdoor resistance.
The quantity to be used is three times in comparison with the pure hardener: Instead of a ratio POLYESTER:HARDENER (pure) of 95:5 is necessary to use a ratio POLYESTER : PROSID H30A of 83 : 17.
The molecular functionality (3.5 on average) improve the degassing of the water coming from the reaction avoiding, in that way, superficial imperfections even in high thickness applications.
The masterbatch is easy handling and grants a very good dispersion during the extrusion of the powder coatings.

Sales specifications

Property	**Value**	**Unit**	**Method**
Melting range (capillary)	80 … 100	°C	SIR 10000
Acid Number	21 … 27	mg KOH/gr	SIR 10328

Typical properties

Property	**Value**	**Unit**	**Method**
Appearance	white flakes		SIR 10010
OH equivalent weight	270 … 290	g /eq	calculated

Supply Form
Product is available as powder packed in 20 kg paper boxes.

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 (25°C) the product should have a stability of one year.

Safety
The product is not flammable and no toxic effect has been determined.
Further information are provided in the relevant safety data sheet.

PROSID® H

PRODUCT
DATA SHEET
PROSID H/051305/1

Description
Hardener for outdoor powder coatings based on *N,N,N',N'*-tetrakis(2-hydroxyethyl) hexanediamide.

Applications
PROSID® H, in combination with carboxyl functional resins, such as polyester or acrylic, enables to obtain powder coatings with excellent weather resistance, suitable for outdoors applications.

Sales specifications

Property	Value	Unit	Method
Melting range (capillary)	120 … 126	°C	SIR 10000
Weight loss at 105°C	1 max	%	SIR 10004
Colour (50% water solution)	50 max	Pt/Co scale	SIR 10007 (ASTM D 1209)

Typical Properties (available on request)

Property	Value	Unit	Method
Appearance	white solid grains with powder		SIR 10010
Hydroxyl number	640 … 720	mg KOH/g	SIR 10682 (DIN 53240-2)
Bulk density	0.65 … 0.75	g/ml	SIR 10013

Supply Form
Product is available as fine granules packed in 20 or 25 kg polyethylene bags.

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 (25°C) the product should have a stability of one year.

Safety
The product is not flammable and no toxic effect has been determined.
Further information are provided in the relevant safety data sheet.