

# PROSID<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>: 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.

# PROSID<sup>®</sup> H30A

PRODUCT DATA  
SHEET  
PROVISIONAL  
PROSID H30A/010701/1

## Description

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

## Applications

The hardener Prosid<sup>®</sup> 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.

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# PROSID<sup>®</sup> 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<sup>®</sup> 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.

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