



Polypropylene Borcoat™ BB108E-1199-PW

Polypropylene compound for Steel Pipe Coating

Description

Borcoat BB108E-1199-PW is a polypropylene compound. The product is coloured white. It includes a combination of stabilisers to ensure long-term thermal stability.

The product is supplied as a powder for application by spray or other special means.

Applications

Borcoat BB108E-1199-PW is recommended as an anti-slip "rough coat" for multilayer PP systems used in:
Steel Pipe Coating

Specifications

DNVGL-RP-F106

EN ISO 21809-1

Special Features

Borcoat BB108E-1199-PW is applied directly after the top coat application and before cooling of the coated pipe. This provides a coating with increased surface friction and roughness compared to normal PP coatings. Typical applications include:

- PP coated pipes on which a concrete weight coating is applied
- Pipes installed in steep terrain to increase friction with the surrounding ground
- Increased safety when people are walking on pipes during handling and loading operations
- Offshore pipes without concrete weight coating to increase the grip in the caterpillar clamps during laying operations

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Compound)	916 kg/m ³	ISO 1183-1, Method A
Melt Flow Rate (230 °C/2,16 kg)	0,9 g/10min	ISO 1133
Melting temperature (DSC)	162 °C	ISO 11357-3
Oxidation Induction Time (220 °C)	> 40 min	ISO 11357-6
Moisture	< 500 ppm	ISO 15512

Other properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Particle Size Distribution	> 840 µm: 0 - 2% 600 - 840 µm: 0 - 5% 500 - 600 µm: 0 - 20% 300 - 500 µm: 35 - 85% 150 - 300 µm: 10 - 45% < 150 µm: < 15%	ASTM D 1921

Borcoat is a trademark of the Borealis group.

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Processing Techniques

The actual conditions will depend on the type of equipment used.
The product can be applied by powder spray.

Please ask Borealis representatives for more specific information on the application.

Packaging

Package: Powder 20 kg Bags on 1100 kg pallet

Storage

Borcoat BB108E-1199-PW shall be stored indoors below 50°C in unopened original packaging in clean and dry environment. It is recommended to ensure proper stock rotation by using first in – first out principle. Following aforementioned conditions the material can be stored for a period of up to 3 years after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

Safety

Please see the Safety data sheet (SDS) / Product safety information sheet (PSIS) for details on various aspects of safety, recovery and disposal of the products. For more information, contact your Borealis representative.

Information on handling recommendations of Borcoat™ powder materials in which typical values for explosive classification data is provided is available upon request. Whenever the product is conveyed, accumulation of smaller dust fraction may occur in parts of the process. This can potentially occur in equipment such as filters, the upper part of silo cyclones, product mixers etc. Related to dust explosion risk, the design of powder handling equipment should comply with authority specifications and requirements. On informative basis Borealis can also provide our internal guideline "Design of dust explosion protection", which can be made available upon request. The data presented in the table below is based on the Dust Explosion Research report number 12/07/FN/05E_C and 12/10/FN/08E_C provided by an independent 3rd party testing company, thus Borealis makes no warranties on this particular statement or any report/document possibly based on it. The determination of maximum explosion pressure is performed acc to EN 14034-1 and maximum rate of pressure rise EN 14034-2. Testing was performed on sieved less than 500 µm fractions.

Typical value for the Borcoat™BB108E-1199-PW material explosion characteristics*

Parameter	Value
Kst-value	11 bar m/s
Dust explosion class	St 1
Maximum exposure pressure	3,9 barg
Maximum rate of pressure rise (20l)	40 bar/s

*= based on Adinex report 12/10/FN/08E_C

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Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Related Documents

For general and grade specific compliance documents please see Borealis' homepage www.borealisgroup.com or ask your Borealis representative.

Issuer:

Product Management / Albin Mariacher

Marketing Oil & Gas / Thomas Stark

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.