

# DuPont™ Polymer Powders FLAMULIT® THERMOPLASTIC POWDERS

FOR ENHANCED SURFACE PROTECTION



 **FLAMULIT®**  
Powder Coatings

Flamulit® thermoplastic powders from DuPont Polymer Powders have been specifically developed for enhanced surface protection in corrosive environments and other demanding applications.

Flamulit offers the following benefits :

- Good abrasion and impact resistance
- Good chemical resistance against most acids and alkalis
- Good salt spray resistance
- Long term weathering and UV resistance (for specific grades )
- Flexible application methods (spraying or dipping)
- Easy application : good coverage in edges, corners and difficult areas
- Noise reduction
- Repairable in situ
- Efficient and economic : no need for primer, high film thickness
- Environmentally friendly: no solvent, VOC and halogen free



*The miracles of science™*

### Flamulit® Product Overview

Depending on the application, different Flamulit® product families are available :

#### Flamulit® 144 and 154 for wirework

- Based on Polyethylene (mainly LDPE)
- High viscosity (Flamulit® 154) or Low viscosity (Flamulit® 144)
- Wide processing temperature range (210-370°C)
- Medium hardness
- Low adhesion to metal, corrosion protection by encapsulation
- Mainly in commodity applications like wire work
- Available in white (other colors on request)



#### Grades available:

| Product      | Polymer | MFI (190°C/2.16 kg) | Maximum particle size | Maximum working temperature | Positive list for food contact |
|--------------|---------|---------------------|-----------------------|-----------------------------|--------------------------------|
| Flamulit 144 | LDPE    | 20                  | < 250 µm              | +65°C                       | Yes                            |
| Flamulit 154 | LDPE    | 40                  | < 315 µm              | +55°C                       | Yes                            |

#### Flamulit® 245 for battery boxes

Flamulit® 245 has been specially designed for the demanding coating of battery boxes, and has been successfully used by leading battery producers for many years.

Flamulit® 245 properties :

- Designed for coating of complex profiles
- Excellent chemical resistance
- Maximum working temperature : +95°C
- Enhanced hardness of the coating
- Available in several colors : RAL 7016, 7021, 9005, 2002, 2000, and 1028
- For fluidised bed application, a hot flocking version can be made available



Long-term corrosion protection in very aggressive environment with DuPont™ Flamulit® 245

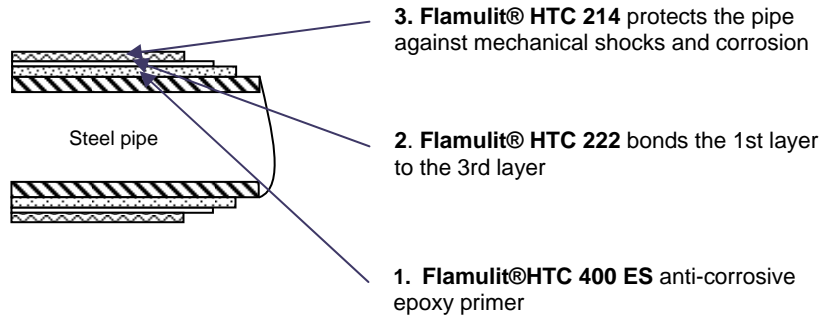
## Flamulit® 200 for external pipe coating

- A 3 layer system provides the best protection against corrosion, mechanical damages, cathodic disbondment and abrasion, and assures an enhanced adhesion of the coating to the substrate



The DuPont™ Flamulit® 3 Layers System, also available as 1 or 2 layers system

### The system



The Flamulit® multi-layer system allows to combine different layers depending on your specification:

- Flamulit® HTC 222 + Flamulit® HTC 214 without Epoxy Primer
- Flamulit® HTC 214 as a single layer (for fittings for example)

|  | Flamulit HTC 400 ES                                | Flamulit HTC 222                    | Flamulit HTC 214                         |
|--|--|-------------------------------------|--|
| Product property                                     | Epoxy Powder                                       | Polymer Powder                      | Polymer Powder                           |
| Application method                                   | Spraying   | Spraying                            | Fluidised bed or rotational lining       |
| Service Temperature                                  | Max. 120°C   | -30°C to +60°C                      | -80°C to +60°C                           |
| Dry Film thickness                                   | 100 - 200 µm (wet on wet application with HTC 222) | Adhesive layer for Top Coat HTC 214 | Up to 4-5 mm (depending on dipping time) |
| Cathodic Disbondment properties                      | Yes  | -                                   | -  |
| Adhesion test (complete system, ambient temperature) |  |                                     | ★★★★                                     |
| Repair / refitting                                   | -  | -                                   | yes                                      |
| Weathering resistance                                | -  | -                                   | ★★★★                                     |
| Long term durability of coated product               |  |                                     | ★★★★                                     |

## Flamulit® 254 HF and Flamulit® 534 for internal lining of fire extinguishers

- Designed for the internal lining of water or foam filled fire extinguishers
- Compliant with EN3 Standard
- Compatible with external coating/ heating process
- Flamulit 254 HF : for spray application
- Flamulit 534 : for rotational lining



**Flamulit® internal linings ensure the long term functionality of the fire extinguishers**

For further information, please contact us:

DuPont Polymer Powders  
Rue St-Joseph 25  
P.O. Box 140  
1630 Bulle 1  
Switzerland  
Tel. +41-26-913 09 00  
Fax +41-26-913 09 09

Sales Germany and Northern Europe  
Ms. Corinne Dziekan  
Regional Sales Manager  
Tel. +49- 2234-6019 3440  
corinne.dziekan@deu.dupont.com

Sales Southern Europe, Middle East and Africa  
Mr. Marcel Melis  
Regional Sales Manager  
Tel. +41-26-913 09 23  
marcel.melis@che.dupont.com

Sales Americas and Asia  
Ms. Danielle Blomert  
Global Business Manager  
Tel. + 41-22-717 60 70  
danielle.blomert@che.dupont.com

[www.dupontpowder.ch](http://www.dupontpowder.ch)