

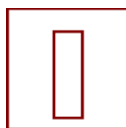
## DESOPREP™ 4000 Thin-Film Pretreatment

### Product description

DESOPREP™ 4000DM/DR (DP4000DM/DR) system is a zirconium-based thin-film pretreatment formulated to provide excellent corrosion resistance for steel, galvanized steel, and aluminum substrates.

- Free of chromates and other chromium compounds
- A single process line can be used to pretreat ferrous and non-ferrous substrates (i.e. steel, aluminum and mixed metals)
- DP4000 is designed to be used as part of a coating system stack-up
- DP4000DM is used to charge the initial bath, while DP4000DR is the preferred bath replenisher
- Designed specifically for dip (immersion) systems
- No post-rinse sealer is required

### Components



#### **Mix ratio (by volume):**

DESOPREP™ 4000DM – 3% by volume

DESOPREP™ Buffer - as required to adjust pH

Refer to DESOPREP™ 4000DM/DR  
Application Guide – Charge Instruction Section  
for details on bath make-up

### Specifications



DESOPREP™ 4000DM/DR is qualified to the following:

- TT-C-490 CHEMICAL CONVERSION COATINGS AND PRETREATMENTS FOR METALLIC SUBSTRATES (BASE FOR ORGANIC COATINGS)

*Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.*

# DESOPREP™ 4000 Thin-film Pretreatment

## Surface preparation and pretreatments



Refer to application guidelines section of this document for further details.

## Instructions for use



### **Mixing instructions:**

Refer to application guidelines section of this document for further details.



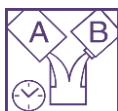
### **Induction time:**

Not required



### **Viscosity:** (23°C/73°F)

Not applicable



### **Pot Life:**

Not applicable

## Application guidelines

### **Recommended application conditions:**

Temperature: 15 - 46°C (60 - 114°F)

### **Application:**

DP4000 Thin-Film pretreatment is designed to be used as part of a coating system stack-up (i.e. surface treatment + primer, or surface treatment + primer + topcoat).

Refer to DESOPREP™ 4000DM/DR Application Guide, separate document, contact your local Application Support Center for a copy.

*These application guidelines represent PPG's best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables. Please contact your PPG Representative for the most up-to-date information.*

# DESOPREP™ 4000 Thin-film Pretreatment



## Equipment:

Refer to DESOPREP™ 4000DM/DR Application Guide, separate document, contact your local Application Support Center for a copy.

## Physical properties (product)



**Color:** Clear



**Gloss:** Not applicable



**pH:**  
**DP4000DM** 1.2 – 1.8



**pH:**  
**DP4000DR** 1.3 – 1.8



**pH:**  
**working solution** 4.4 – 5.2



Refer to application guidelines section



## VOC:

DESOPREP™ 4000DM/DR

0 grams/liter

# DESOPREP™ 4000 Thin-film Pretreatment



## Flash point closed cup:

DESOPREP™ 4000DM/DR

Not applicable

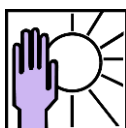
## Shelf life:

12 months from date of manufacture to most OEM material specifications. Consult the specification to verify shelf life requirements.

*Note: Shelf life is provided for original, unopened containers.*

*Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.*

## Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 10°C to 38°C (50°F to 100°F) to ensure shelf life.

*Note: When procuring to a qualified material specification, follow those storage instructions.*

## Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

**For industrial use only. Keep away from children.**

**Additional information can be found at: [www.ppgaerospace.com](http://www.ppgaerospace.com)**

**For sales and ordering information call the local PPG office at the numbers listed below:**

### **Asia Pacific**

#### **ASC – Australia**

Tel 61 (3) 9335 1557

Fax 61 (3) 9335 3490

#### **ASC – Japan**

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Tel 65 6861 1119

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### **Europe and Middle East**

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Fax 49 (40) 742 139 69

#### **ASC – Middle East & India**

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Fax (971) 4 883 9665

#### **ASC – North Europe**

Tel 44 (0) 1388 770222

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**DESOPREP™ 4000DM/DR**

# DESOPREP™ 4000 Thin-film Pretreatment

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Tel (86-512) 6661 5858

Fax (86-512) 6661 6868

## ASC – South Europe

Tel 33 (0) 235 53 43 71

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## ASC – Tianjin

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## Americas

1 (818) 362-6711 or 1-800-AEROMIX

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