

## TECHNICAL SPECIFICATIONS GUIDELINE

### DACFILL FRIGO GASTIGHT COATING

Rubber-like gases and vapours tight coating

#### CHARACTERISTICS

- Ideal for cold rooms and storage facilities
- Resistant to sudden temperature changes
- Water-based, low odour
- High durable elasticity, impact resistant, will not peel off
- Easy application

#### ACCEPTABLE SUBSTRATES

##### CONCRETE

###### Surface condition

New concrete must dry and cure for 30 days as a minimum prior application of the coating system. In compliance with usual standard, mass humidity should not exceed 6%. This will be checked by use of a humidity tester, or with a taped plastic sheet under which no formation of condensation should be observed overnight. Walls must be isolated in order to prevent moisture pressure. Surface must be clean and can be slightly humid during application.

##### TILES

###### Surface condition

Tiles should be well-adhered to the substrate, which will be checked using a rubber mallet. Tiled walls must be isolated to prevent moisture pressure. Surface must be clean and dry prior and during application.

##### STEEL

###### Surface condition

Steel substrates must be properly supported to avoid warping, which could cause the coating to work and lead to cleavage.

A: Steel substrate extensively covered with adhered mill scale but with few or no rust at all.

B: Steel substrate that has started to rust and whose mill scale has started to delaminate.

C: Steel substrate from which mill scale has disappeared under action of rust, or that can be removed by scrapping, but showing some rust cankers visible by naked eye.

D: Steel substrate from which mill scale has disappeared under action of rust, or that can be removed by scrapping, but showing a lot of rust cankers visible by naked eye.

##### NON-FERROUS METALS

###### Surface condition

Surfaces must be made up of solid and non-deformable structures.

##### PANELS

###### Surface condition

Plastic substrates should be in good condition. Plastics such like polyester, hard PVC, polystyrene, ABS, can be painted. PTFE, silicones, polyethylene, polypropylene and derived cannot be painted, as well as plasticizers containing synthetic panels. Isolating panels made of polystyrene, PU foam etc can be painted direct.

##### OLD COATINGS

###### Surface condition

Old paints and coatings should be perfectly adherent and compatible with a water-based acrylic system. In case of doubt, carry out a test on a small control-surface. Compatible glossy coatings will be sanded mechanically.



## **SURFACE PREPARATION**

### **GENERAL**

Remove any dust, debris etc ; degrease and eliminate any contamination by alkaline cleaning with Cleaner-Degreaser RUST-OLEUM ND14 or high pressure cleaning combines with appropriate detergent, followed by thorough rinsing and full drying. In case of presence of mould (moss, lichens etc), decontaminate concerned surfaces with AMW Concentrate, followed by thorough rinsing and full drying. For severely contaminated areas, it is recommended to double the fungicidal treatment.

### **CONCRETE/MINERAL**

New mineral substrates will be scrubbed to remove loose particles, efflorescences will be removed by mechanical means or high pressure cleaning.

### **TILE**

See General.

### **PANELS**

See General.

After cleaning, sand old coatings and hard plastics in good condition to promote adhesion.

## **RECOMMENDED WORKING PROCEDURES**

### **PRECAUTIONS**

During application and first phase of drying ( $\pm$  4 hours), a high humidity and/or condensation can cause a lower quality and performance of the paint. Although Rust-Oleum DACFILL FRIGO system is solvent-free, it is recommended, during its application, to store food or food products in a separate room. Mobile equipment will be moved away from the area of paintworks execution.

### **REPAIRS**

#### Concrete :

Surface imperfections, holes, cracks etc in the concrete will be repaired with appropriate RUST-OLEUM repair products: Elastofill ou Elastopro sealant, Epoxy Putty 5412 for small repairs, mortier Pegacrete mortar for bigger repairs.

#### Tile :

After checking, unsound tiles will be removed and replaced by new identical tiles with new grouting, or by patching with Pegacrete mortar.

#### Panels :

Replace les damaged synthetic panels. Repair worn areas with Epoxy Putty 5412.

### **PRIMERS**

Porous mineral substrates will receive a coat of Primer Pegafix Universal. Very smooth and non-absorbing substrates such like tile and synthetic panels will receive a coat of adhesion primer RUST-OLEUM Pegalink. Metal surfaces including galvanized steel and non-ferrous metals will receive a coat of Metal Cladding Primer, with double coat on rusted areas.

## **APPLICATION CONDITIONS**

Temperature of air, substrate and product should be between 5°C and 35°C, and relative humidity below 85%. Substrate temperature will be 3°C superior to dew point.

Product mixing: mix the paint with a slow speed electric mixing machine, maximum 300 rounds/minutes), until homogeneous result is obtained. Consult technical data sheets for details on drying times, induction times, pot-life, dilution and recommended application methods. Consult safety data sheets for any information related to safety during use of products.

## **BACK TO SERVICE**

Depending on temperature, most of acrylic coatings will be hard after 6h. However the coating remains vulnerable to the action of humidity, detergents and chemicals, until full hardness is reached. It is therefore necessary to take precautions on the coating system as a consequence for at least one week. During application and drying, coatings require good ventilation ; in closed spaces, a forced ventilation is required (extraction). Best results are obtained when product is applied at an average temperature of 20°C (air, substrate), and when relative humidity can be maintained below 85%. To the extent that hardening of product is a combination of water evaporation and coalescence of the binder, temperature plays an important role ; full hardness is reached after about 7 days et 20°C.

## **SURFACE MAINTENANCE**

A RUST-OLEUM DACFILL FRIGO system can be maintained by cleaning with a neutral detergent or alkaline detergent diluted with water. On metal, in case of rust reformation, it is advised to not postpone repair, to prevent any growth.

**SYSTEMS OVERVIEW**

WALLS SYSTEMS								
SUBSTRATES	CONCRETE/MINERAL		TILE		METAL		PANELS	
	<b>Renovation of existing gas-tight coldrooms</b>	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :	System :
Primer	Pegafix	15 µm	Pegalink	35 µm	MC Primer	35 µm	Pegalink	35 µm
1st coat	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm
2nd coat	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm	Dacfill Frigo	95-190 µm
Total film thickness	205-395 µm		215-415 µm		215-415 µm		215-415 µm	
<b>Creation of gastightness for new coldrooms</b>	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :	System :	D.F.S. :
Primer	Pegafix	15 µm	Pegalink	35 µm	MC Primer	35 µm	Pegalink	35 µm
1st coat	Dacfill Frigo	360-550 µm	Dacfill Frigo	360-550µm	Dacfill Frigo	360-550 µm	Dacfill Frigo	360-550 µm
2nd coat	Dacfill Frigo	360-550 µm	Dacfill Frigo	360-550µm	Dacfill Frigo	360-550 µm	Dacfill Frigo	360-550 µm
Total film thickness	785-1115 µm		795-1135 µm		795-1135 µm		795-1135 µm	

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**Available colours and pack sizes:** See the relevant product page at [www.rust-oleum.eu](http://www.rust-oleum.eu) for actual available colours and pack sizes.

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