

# Expanbrush\* RFX



CONSTRUCTION CHEMISTRY

## Elastomeric cementitious waterproofing coating for roofs

### Uses

Expanbrush\* RFX is an Elastomeric cementitious coating specially designed for roof waterproofing.

Expanbrush\* RFX is suitable for use on all types of structures in industrial, commercial and residential areas including those situated in coastal environment, Expanbrush\* RFX can be used on concrete, brick and block works, is equally suited for both new and existing structures and provides a durable, flexible waterproof coating suitable in accepting light foot traffic.

### Advantage

- Waterproof
- Allow water vapor to escape from the structure
- High resistant to the effects of long term weathering, durable in all climatic conditions.
- Non-toxic.
- Excellent bond to concrete and masonry.
- Minimum surface preparation is required.
- Flexible.
- Designed to accept light foot traffic.
- Does not require over-coating.

### Description

Expanbrush\* RFX two components acrylic polymer modified cementitious coating is supplied in pre-packed form. The product is designed to be easily mixed on site using a slow speed drill fitted with a mixing paddle and then applied to the substrate using either brush, roller, trowel or spray. The finished coating is of a slightly granular texture.

### Technical support

Expanchem Fospak offers a comprehensive range of high performance, high quality repair, maintenance and construction products, in addition, Expanchem Fospak offers a technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in location all over the world.

### Design criteria

Expanbrush\* RFX is design to be applied at a minimum thickness of 1 mm. It is strongly recommended to apply a second application of Expanbrush\* RFX on roof area, which will be subject to pedestrian traffic, the total dry film thickness with a second cote should be in between 1.50 to 2 mm.

### Properties

#### Typical properties of mixed material

Pot life at 20 °C	: 1 hour
Pot life at 35 °C	: 30 minutes
Colours	: Grey & White
Mixed density	: 1650 kg/m <sup>3</sup>
Minimum application temperature	: 5°C
Service temperature	: -40 to 80°C

### Instructions for use

#### Preparation

All surfaces should be clean and free from contamination such as oil, grease, loose particles, decayed matter, laitance, and all traces of mould release oils and curing compounds. This is best achieved by manual or mechanical cleaning with wire brush or emery stone grinding.

Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the cleaning process.

Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with a Expanchem Fospak repair system, for further advice, consult the local Expanchem Fospak office.

It is essential that all surfaces should be pre-soaked with clean water prior to the application of Expanbrush\* RFX.

#### Mixing

Expanbrush\* RFX liquid should be poured from the plastic container into the metal drum, for brush application consistency mix with a slow speed drill (500 rpm.) fitted with Mixing Paddle.

The powder component should be added gradually to the liquid to avoid lump formation and mixed for 2 to 4 minutes.

Expanbrush\* RFX should be immediately used after mixing. Do not mix more material than can be used within the pot life. Keep mixing Expanbrush\* RFX during the application.



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## Application

Pre-dampen the surface with clean water using a brush or spray bottle, high porosity substrate will require more dampening than dense substrates, whilst the surface is damp, apply the material using a soft bristled brush (120 mm to 200 mm wide) or trowel or squeegee, it is important that the correct rates of application are observed, apply Expanbrush\* RFX in one or two coats as required.

Spray applications should use the correct mixing ratio to obtain satisfactory consistency. In hot climatic conditions, it is likely that spray application will be the best for exterior decorative finishes. Nozzle size should be 3-4mm and pressure of 6-8 bars should be used.

It is recommended that for general resurfacing each coat should be 1mm thick. Areas subjected to light foot traffic should receive two coats of Expanbrush\* RFX. If in doubt about the condition of the substrate, the local Expanchem Fospak office should be consulted.

## Cleaning

Expanbrush\* RFX should be removed from tools and equipment with clean water immediately after use. Hardened material can be removed mechanically.

## Limitations

Expanbrush\* RFX should not be used when the temperature is below 5 °C and falling, do not proceed with application when rainfall is imminent unless in a sheltered or protected location, the product should not be exposed to moving water during application.

## Estimation

### Supply

<b>Powder component</b>	: 11 Kg.
<b>Liquid component</b>	: 5 Kg.
<b>Total pack</b>	: 16 Kg.
<b>Coverage</b>	: 1.65 – 3.30 Kg. / m <sup>2</sup>

### Storage

Combined products have a shelf life of 12 months if kept in a dry store in the original, unopened pack.

### Storage conditions

Store in cool, dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures and/or high humidity conditions the shelf life will be reduced. Expanbrush\* RFX liquid component should be protected from frost.

\* Denotes the trademark registered.

## REGIONAL SALES OFFICES IN PAKISTAN:

### Fospak (Pvt) Ltd.

#### Head Office

702, Business Avenue,  
Block-6, PECHS., Shakra-e-Faisal,  
Karachi, Pakistan.

Tel # +92-21-34528477, 34529859

Fax # +92-21-34522436

Email : info.khi@fospak.com.pk

### Lahore Sales Office

2nd Floor Sarwar Shaheed Plaza,  
Cavalry Ground,  
Main Boulevard, Lahore Cantt,  
Lahore, Pakistan.

Tel # +92-42-36675773

Fax # +92-42-36675838

Email : info.lhr@fospak.com.pk

### Rawalpindi Sales Office

1st Floor,  
Al-Harmain Plaza,  
Main Murree Road,  
Rawalpindi, Pakistan.

Tel # +92-51-9290592

Fax # +92-51-9290590

Email : info.isb@fospak.com.pk

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