



FEDERAL INDUSTRIAL LININGS

Tel: +27 11 955 2555

10 Federal Industrial Park
138 Main Reef Road
Manufact, Roodepoort
JHB, South Africa

Reg. No: 2009/183722/23
VAT No: 4100254848

www.federalindustrial.co.za

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TECHNICAL DATA SHEET

FEDCHEM - PWS

DESCRIPTION

FedChem-PWS, is a Chemical Resistant Polyurethane wall screed system indicated for industrial walling applications that are subject to severe mechanical and chemical conditions. Applied at a thickness of 4 - 5mm **FedChem-PWS** is resistant to almost all chemicals – (Chemical Resistance Chart available upon request). It can also be applied to green (uncured) concrete walls that is 7 days old.

PRINCIPLE USES

FedChem-PWS is used in areas subject to severe chemical exposure & spillage, such as acid plants, chemical bund areas, battery rooms, loading bays, mineral refineries, chemical plants, water & waste treatment plants, paper & pulp plants, sugar refining, food factories, dairies & breweries.

CHEMICAL RESISTANCE

FedChem-PWS resists most chemicals (acids & alkalis), fuels, oils & solvents - Specific chemical resistance to products can be obtained from Federal Industrial Linings upon request.

FedChem-PWS also has excellent resistance to wear & abrasion, making it ideal for heavy duty walling applications.

PERFORMANCE DATA

Description

Results

Appearance	Textured aggregate surface
Substrate Moisture Content	Must be less than 10%
Touch Dry (Hours) @ 25°C	4 hrs
Walk on Dry (Hours) @ 25°C	6 hrs
Hard Dry (Hours) @ 25°C	24 hrs
Full Cure @ 25°C	4 days
Compressive strength	45,0 N/mm ² - BS6319
Tensile strength	6,4 N/mm ² - BS2782:320D
Pack Size	12kg kits
Theoretical Coverage (m ²)	+1.1m ² per kit @ 5mm thick
Application Temperature	10 – 35°C

ADVANTAGES

- Extremely good chemical resistance to most chemicals, acids and alkalis
- Excellent resistance to organic and inorganic acids
- Fast curing times
- Slip resistant surface
- Easy to clean
- Resistant to extreme atmospheric temperatures

SURFACE PREPARATION

Mechanical preparation of the substrate is important. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits.

The surface should be visibly dry, have a minimum tensile strength of 1,5M/mm² and have the necessary cleanness & roughness. FedPrime PU Primer must be used prior to application on all cementitious and concrete surfaces.

Any porous or absorbed areas still showing after concrete priming applications, should be primed again.

MIXING

Pre-mixing of the coloured liquid component is recommended to ensure any solids settlement is suspended.

Add all of the contents of the liquid component (Part A) into the hardener (Part B) and mix for a minimum of 2 minutes or until a homogenous mix is achieved. This mixture should then be loaded into a cement drum mixer and the aggregate (Part C) added in (in stages), mixing until a lump free mix is obtained for approx. 3 minutes.

APPLICATION

Apply **FedChem-PWS** at the specified thickness (4 – 5mm) using trowels and level to the required thickness with a steel float. Final texture may be achieved by back rolling with a short nap hair paint roller.

STORAGE AND STABILITY

Store in unopened packs in a cool & dry place.

Failure to do so will result in a reduction of product efficiency.

SAFETY AND HANDLING

FedChem-PWS contains chemicals.

Use only with adequate ventilation. Protective clothing should be worn when handling this product.

All sources of ignition should be removed. If exposed, eyes should be well flushed with water for 15 minutes and medical attention must be sought instantly. This product is for professional use only. The applicators and operators must be trained, experienced and have the ability and equipment to apply the product correctly and according to specification. Applicators and operators must use the appropriate PPE when using this product. The safety procedures applicable to the handling of polyurethane materials should be read, understood and adhered to.

The information contained in this data sheet is, to the best of our knowledge true and accurate, but any recommendations or suggestions which may be made, are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.