



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDCHEM 98

DESCRIPTION

FedChem 98 is a specialized, solvent free novolac epoxy with excellent resistance to most acids, alkalis and aliphatic solvents. It is supplied in Grey or Red colours, or as a clear laminating resin for use with fiberglass or carbon fibre.

PRINCIPLE USES

Areas subject to extreme 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 98 resists most acids & alkalis, including 98% Sulphuric Acid, 50% Sodium Hydroxide, Petroleum products & Aliphatic Solvents. A complete Chemical Resistance Chart is available upon request.

PERFORMANCE DATA

Description

Results

Pot Life (Minutes)	40 min (25°C)
Mix Ratio	5 : 1 (by volume)
Touch Dry (Hours) @ 25°C	10 hrs
Over Coating Time (Hours) @ 25°C	6 - 24 hrs
Hard Dry (Hours) @ 25°C	18 hrs
Walk on Dry (Hours) @ 25°C	36 hrs
Full Cure @ 25°C	7 days
Pack Size	8.5kg kits
Volume Solids	100%
Theoretical Coverage (m ²)	3.5m ² per kg (Depends on wastage and surface profile)
Application Temperature	10 – 40°C
Shelf Life	12 months

ADVANTAGES

- Extremely good chemical resistance to most acids and alkalis
- Solvent Free
- Can be applied by brush, roller or airless spray
- Can be applied to steel and concrete

SURFACE PREPARATION

Mechanical preparation of the substrate is important before application of **FedChem 98**. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits. Metal surfaces should be prepared by grit blasting to Sa 2½ (ISO 8501-1).

On concrete surfaces **FedPrime MC808 Primer** must be used. The surface should be prepared by grit blasting or as per standard practice (mechanical grinding or acid etching) to expose aggregate surface or to achieve the necessary cleanliness & roughness prior to the application of **FedPrime MC808 Primer**. Any porous or absorbed areas still showing after priming applications, should be primed again.

MIXING

Add all of Part B to part A and mix using a mixer with a mixing paddle at medium speed for 2-3 minutes until both components have fully dispersed and is homogenous. A **maximum of 5%** Epoxy Thinners may be used to thin the product in cold weather. **DO NOT EXCEED 5% THINNERS**

Ensure to rotate the mixer inside the container and into the corners of the container.

Only mix full packs.

APPLICATION

Apply at the specified thickness (150 – 200µm per coat) using high pressure airless spray equipment, (brushes and/or rollers may be used for small areas & stripe coating only) to a cleaned and prepared surface.

Apply suitable top coat (available from Federal Industrial) within 6 to 24 hours after application if required.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner.

Clean tools and equipment immediately after use with FedThin epoxy thinner or MEK.

LIMITATIONS

- Application conditions: temperatures must be between 10 and 45°C.
- Will not accommodate excessive movement or cracks in the substrate.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

Shelf life is 12 months when stored in unopened containers in a cool & dry place.
Failure to do so will result in a reduction of shelf life

SAFETY AND HANDLING

Contains epoxy resins. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product.

All sources of ignition should be removed.

The safety procedures applicable to the handling of epoxy and chemical materials should be read, understood and rigidly adhered to.

Although **FedChem 98** Epoxy Coating is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to.

This product is for professional use only. The applicators and operators must be trained, experienced and have the ability and equipment to apply the coatings correctly and according to specification. Applicators and operators must use the appropriate PPE when using this product.

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.