



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDCHEM - WB

DESCRIPTION

FedChem – WB is a single component, water based, direct to metal, fast drying, anti-rust, acrylic polymer coating and topcoat, all in one product, designed to provide excellent exterior performance properties. The coating exhibits excellent adhesion, corrosion protection and UV resistance in one easy to apply product. Most RAL colours available. **FedChem – WB** can be applied to all types of ferrous metal substrates.

PRINCIPLE USES

FedChem – WB is intended as a corrosion protecting coating for steel & metal structures where high moisture conditions are challenging & where mild chemical resistance is required. It has good corrosion, wear & abrasion resistance & minimal surface preparation is needed prior to application as the product is adhesion promoted in its design.

PERFORMANCE DATA

Description

Results

Pot Life (Minutes)	Not Applicable – single component product
Finish	Satin
Specific Gravity (g/ml)	1.2
Touch Dry (Hours) @ 25°C	1 hrs
Open Time / Over Coating Time @ 25°C	1 - 8 hrs
Hard Dry (Hours) @ 25°C	2 hrs
Walk on Dry (Hours) @ 25°C	12 hrs
Full Cure @ 25°C	2 days
Kit Size	5lt / 20lt
Volume Solids	52% (+-2)
Theoretical Coverage (m²)	8m² p/lt @70µm DFT Depends on wastage & surface profile
Indicated WFT / DFT	140µm / 70µm
Service Temperature	Atmospheric 70°C
Shelf Life	12 months

ADVANTAGES

- Low viscosity – easily applied by brush, roller or spray.
- Good chemical resistance.
- Good resistance to moist environments.
- Can be used on substrates where grit/sandblasting is not possible.
- Adhesion promoted – can be used on all ferrous metal substrates.

SURFACE PREPARATION

Mechanical preparation of the substrate is important before application of **FedChem – WB**. The substrate should be structurally sound and free of oil, dust and debris, grease, loose / bubbling paint, corrosion deposits, laitance, salts or other surface deposits. Metal surfaces should be prepared by cleaning to a minimum standard of St 2 (ISO 8501-1) cleaning, if grit or sandblasting is not possible. On rusted metal surfaces **FedPrime - RT** (Rust Treat) should be used as a primer. Refer to **FedPrime – RT** TDS for application instructions.

MIXING

Mix using a mixer with a mixing paddle at medium speed for 2-3 minutes until paint is homogenous. Ensure to rotate the mixer inside the container and into the corners of the container.
DO NOT ADD WATER FOR THINNING.

APPLICATION

Apply **FedChem – WB** to the recommended thickness (130µm WFT / 70µm DFT per coat) using an airless sprayer or brushes & rollers to a cleaned and prepared surface. A written specification always supersedes any application guideline. Do not exceed 250µm WFT per coat as it will result in “mud cracking” as it dries. Apply subsequent coats within 1 to 8 hours after application. Should the over coating time be exceeded roughen the surface & wash the coating off with high pressure fresh water to remove any surface salts prior to over coating.

CLEANING

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

LIMITATIONS

- Application temperatures between 5°C and 40°C.
- Max service temperature is 70°C.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

FedChem – WB has a shelf life of 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

FedChem – WB contains chemicals. 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. 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 coatings 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 chemical materials should be read, understood and rigidly adhered to.

The information contained in this bulletin 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.