



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDSEAL - WPS

DESCRIPTION

FedSeal - WPS is a single component, water based, acrylic emulsion, water proofing sealant. It is like Liquid Roof Rubber. The acrylic backbone resin increases adhesion and provides long-term colour stability. The product cures into a durable, flexible, UV stable and weather resistant lining and is suitable for outdoor & indoor applications. **FedSeal – WPS** is also available with fibre reinforcement already embedded in the product (no need for a separate membrane).

PRINCIPLE USES

FedSeal - WPS is intended as a waterproofing coating for steel & concrete roofs, parapets, gutters, balconies & water storage structures such as dams & water tanks. It has good UV stability, flexibility, wear & abrasion resistance & minimal surface preparation is needed prior to application as the product is adhesion promoted in its design.

PERFORMANCE DATA

Description

Results

Colours	White, Grey, Terracotta or any other RAL spectrum colour
Viscosity	± 15 000 cps @ 25°C
Specific Gravity (g/ml)	1.08
Touch Dry (Hours) @ 25°C	3 hrs
Open Time / Over Coating Time @ 25°C	3 - 12 hrs
Hard Dry (Hours) @ 25°C	8 hrs
Walk on Dry (Hours) @ 25°C	12 hrs
Full Cure @ 25°C	24 hrs
Pack Size	5lt / 20lt
Volume Solids	52% (+-2)
Theoretical Coverage (m²)	1m² p/lt @500µm DFT Depends on wastage & surface profile
Indicated WFT / DFT	1000µm / 500µm per coat
Recommended no of coats	2 - 3 (Depends on application environment)
Shelf Life	12 months

ADVANTAGES

- Easily applied by brush, roller or airless spray
- Good UV resistance
- Good resistance to abrasion
- Flexible & colour stable
- Low odour & Quick drying
- Adhesion promoted – can be used on all metal & concrete substrates

SURFACE PREPARATION

Suitable preparation of the substrate is required before application of **FedSeal - WPS**. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits. The substrate should be clean & dry. For optimal results, consult Federal Industrial Linings regarding suitable primers and surface preparation.

MIXING

Mix using a mixer with a mixing paddle at medium speed for 2-3 minutes until contents is homogenous. Ensure to rotate the mixer inside the container and into the corners of the container. A max of 5% water is advised for thinning (only if required). Seal container properly after use to avoid film forming.

APPLICATION

Apply **FedSeal - WPS** to the recommended thickness (1mm Wet film / 0.5mm Dry film per coat) using an airless sprayer or brushes & rollers to a cleaned and prepared surface. If a membrane is required, firmly and evenly press a layer of woven fabric waterproofing membrane into the 1st wet layer. Allow to dry 3-6 hours before recoating. Apply a second, and third coat, waiting 3-6 hours between coats, until the membrane is totally saturated and the surface has an even and noticeable high sheen. Do not exceed 3mm Wet film per coat.

Apply subsequent coats within 3 to 12 hours after application. Should the 12 hour over coating time be exceeded, wash the coating off with high pressure fresh water to remove any surface deposits, dust or salts prior to over coating. A written specification always supersedes any application guideline.

FedSeal – WPS is also available **with fibre reinforcement**, eliminating the need for separate membrane application.

CLEANING

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

LIMITATIONS

- Application temperatures between 5°C and 40°C.
- Avoid excessive application.
- Avoid contact with eyes & skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

FedSeal - WPS 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

FedSeal - WPS 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.

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.

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