

X-Shield FS490 PW

Potable water grade elastomeric waterproof polyurea coating

Product Description

X-Shield FS490 PW is a fast setting, potable water grade, sprayable, elastomeric, waterproof coating, manufactured using the latest hybrid polyurea technology.

Composition

X-Shield FS490 PW is a 100% solids (zero VOC), two component hybrid polyurea.

Advantages

- ANSI/NSF 61 approved
- High elongation
- Abrasion resistant
- Tear resistant
- Excellent adhesion to metal, wood and concrete
- Fast turn around
- Waterproof
- Elastomeric
- Resistant to wide range of chemicals
- VOC compliant

Uses

- Water treatment plants
- Water storage tanks
- Cooling towers
- Pipelines
- Waterproofing joints
- Steel tanks
- Pond liners
- Canal liners

Specification Compliance and Approvals

ANSI/NSF 61 approved.

Laboratory Test Data

Property	Typical Results	Test Method
Tensile strength	2300psi (16 MPa)	ASTM D 412
Elongation	490%	ASTM D 412
Tear resistance	340 lb/inch 38.5 N/M	ASTM D 624
Hardness	90 shore A	ASTM D 2240

Application Properties

Application temperature	35 to 122°F (2 to 50°C)
Ratio by volume	1:1
Spray pressure	> 2200psi (15 MPa)
Spray temperature	>150°F (65°C)
Gel time	15 seconds
Tack free time	60 seconds
Recoat time	8 hours
Metering equipment	Plural
Spray gun type	Air purged
Recommended thickness	20-125 mils (0.5-3.0mm)
Max thickness per pass	20 mils (0.5mm)

Color

Grey, blue and black.

Theoretical Coverage

2m² /L at 0.5mm thickness.

Actual coverage will depend on wastage and surface profile.

Return to Service

When used for potable water applications, X-Shield FS490 PW must be allowed to cure for a minimum of 24 hours before immersion.

Packaging

100 gal (379L) sets.

Shelf Life

24 months from date of manufacture when stored in original, factory sealed containers between 60 and 90°F (15 and 32°C) under shade in a dry environment.

Installation Guidelines

X-Shield FS490 PW can only be applied by an NCC X-Calibur Registered Contractor using trained personnel and the correct equipment. NCC X-Calibur does not allow any contractor on to the register unless they satisfy strict selection criteria. For each application NCC X-Calibur will provide a detailed method statement that the registered Contractor will work to.

Cleaning

Clean uncured material from equipment using X-Shield Solvent. Cured material can only be removed by mechanical means.

Limitations

Will fade in color when exposed to direct sunlight.
Do not apply in rain or wet conditions at temperatures below 35°F (2°C) and above 110°F (43°C) or within 5°F (3°C) of the dew point.
Do not store below 60°F (15°C) or above 90°F (32°C)
Apply only on to slabs that have waterproofing system installed in order to prevent blistering due to vapor drive or osmosis.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg.

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Support Specialists ('ATSS') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATSS.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.