Flowcrete
for the world at your feet

COLOURFUL CAR PARK DECKING

ANTI SLIP FINISHES

FAST CURE FLOORING

CORROSION PROTECTION COATINGS

FOOD & BEVERAGE FLOORING

TYPICAL CHEMICAL RESISTANCE OF FLOWCRETE FLOORING MATERIALS

# FLOWCRETE AUSTRALIA

## Epoxy & Vinyl Ester Chemical Resistance Data

COLOURFUL CAR PARK DECKING

ANTI SLIP FINISHES

FOOD & BEVERAGE FLOORING

FAST CURE FLOORING

ANTISTATIC SYSTEMS FOR ELECTRONICS MANUFACTURING

HEAVY DUTY SCREEDS

CORROSION PROTECTION COATINGS

Part of TREMCO
Construction Products Group

www.flowcreteaustralia.com.au

# Chemical resistant tests have been completed on the full range of Flowcrete Industrial Flooring products...

Usually this has been effected upon products, which are pigmented, light grey in colour. All test pieces were cast as 20 x 20 x 4mm coupons (grouted and sealed where appropriate) being allowed to fully cure for 10 days at 20–25°C prior to being tested in accordance with the schedules described below.

The results detailed in the tables below should be considered as the most extreme circumstances as the test pieces were completely immersed in the test solutions. In practice, aggressive chemicals only come into contact with the uppermost working surface of any floor system, which significantly reduces the aggressive potential of a given chemical. Additionally, these effects should be minimised in practice by good house keeping and cleaning regimes.

In the absence of specific chemical contact data or combinations of chemicals listed below please contact our technical department or laboratories who will be pleased to advise you based upon experience from previous case histories. Alternatively, our technical centre can carry out further tests.

## Please Note...

- Discoloration not classified as chemical attack if hardness is not affected.
- Higher temperatures will reduce the chemical resistance shown in the performance table.
- Some chemicals may concentrate due to evaporation and become more aggressive.
- Mixtures of chemicals can be more aggressive than might be expected from the individual components alone.
- Solvent resistant performances, in practice, are expected to exceed the values noted in the performance table due to good housekeeping combined with evaporation.
- The chemical resistance of Epoxy screed systems will be influenced by the integrity of the surface sealer – this being dependent upon service conditions and housekeeping.
- The assessment is based on a resin rich screed where permeation by liquid chemicals is minimal.
- The use of a highly filled screed will significantly reduce the chemical resistance shown in the performance table.

# Flowcrete flooring materials are categorised as below...

## Solvent Free Epoxy Coating

Deckcoat EP
Flowcoat SF41
Flowcoat HS
Flowcoat OP
Flowflake systems
Flowshield ESD
Flowshield SL
Flowshield Quartz
Peran STC

## Solvent Free Chemical Resistant Epoxy Coating

Flowcoat CR
Flowcoat SK
Flowshield CR/CR1000
Flowshield ESD CR
Flowshield SK/SK1000

## Vinyl Ester

Flowchem VE systems

## Water Born Epoxy Coating

Deckcoat EPW
Flowseal EPW
Flowseal ESD

| CHEMICAL (tested at 20–25 °C unless stated) | % | TEST RESULT | | | |
|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Acetaldehyde | | 0 | 3 | 0 | 5 |
| Acetic Acid | 5 | 0 | 5 | 0 | 5 |
| Acetic Acid | 10 | 0 | 5 | 0 | 5 |
| Acetic Acid (at 60 °C) | 10 | 0 | 0 | 0 | 5 |
| Acetic Acid | 20 | 0 | 3 | 0 | 5 |
| Acetic Acid | 30 | 0 | 1 | 0 | 5 |
| Acetic Acid (at 60 °C) | 30 | 0 | 0 | 0 | 5 |
| Acetic Anhydride | | 0 | 3 | 0 | 5 |
| Acetone | | 0 | 0 | 0 | 0 |
| Acetonitrile | | 0 | 3 | 0 | 5 |
| Acetyl Chloride | | 0 | 3 | 0 | 5 |
| Acrolein | | 0 | 3 | 0 | 5 |
| Acrylic Acid | | 0 | 3 | 0 | 5 |
| Acrylic Methyl Ester | | 0 | 3 | 0 | 5 |
| Acrylonitrile | | 0 | 3 | 0 | 5 |
| Adiponitrile | | 1 | 3 | 0 | 5 |
| Allyl Alcohol | | 0 | 3 | 0 | 5 |
| Allyl Chloride | | 0 | 3 | 0 | 5 |
| Alumunium Sulphate | 30 | 3 | 3 | 0 | 5 |
| Ammonia 0.880 | | 0 | 3 | 0 | 5 |
| Ammonia (aq. Sol'n) | 40 | 3 | 3 | 0 | 5 |
| Ammonium Chloride | 30 | 3 | 3 | 3 | 5 |
| Ammonium Nitrate | 30 | 3 | 3 | 3 | 5 |
| Amyl Acetate (Mixed Isomers) | | 3 | 3 | 3 | 5 |
| Aniline | | 0 | 3 | 0 | 5 |
| Aromasol H | | 3 | 3 | 1 | 5 |
| Beer | | 5 | 5 | 5 | 5 |
| Benzene | | 0 | 3 | 0 | 5 |
| Benzyl Alcohol | | 0 | 3 | 0 | 5 |
| Benzyl Chloride | | 0 | 3 | 0 | 5 |
| Blood | | 5 | 5 | 5 | 5 |
| Brine | 30 | 3 | 3 | 3 | 5 |
| Butanol | | 3 | 3 | 1 | 5 |
| Butyl Acetate | | 3 | 3 | 1 | 5 |
| Butyl Acrylate | | 3 | 3 | 1 | 5 |
| Butyl Benzyl Phthalate | | 3 | 3 | 3 | 5 |
| Butyl Ether | | 3 | 3 | 3 | 5 |
| Butyric Acid | | 0 | 3 | 0 | 5 |
| Calcium Carbonate Sol'n | Sat'd | 3 | 3 | 3 | 5 |
| Calcium Hydroxide Susp' n | 30 | 3 | 3 | 3 | 5 |

Chemical resistance ratings are classified as follows...

**5 EXCELLENT**
No deleterious action after long term contact.

**3 MEDIUM TERM**
Unaffected after 1 month but may begin to fail thereafter.

**1 SHORT TERM**
Unaffected after 24 hours but may begin to fail therafter.

**0 NOT RESISTANT**
Attacked on contact or within 2-3 hours.

| CHEMICAL (tested at 20–25 °C unless stated) | % | TEST RESULT | | | |
|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Caprolactam | 20 | 1 | 3 | 1 | 5 |
| Caprolactam | 30 | 1 | 3 | 1 | 5 |
| Caprolactam | 50 | 1 | 3 | 1 | 5 |
| Caprolactam | 100 | 1 | 3 | 1 | 5 |
| Carbon Tetrachloride | | 3 | 5 | 3 | 5 |
| Castor Oil | | 5 | 5 | 5 | 5 |
| Chicken Fats | | 3 | 5 | 0 | 5 |
| Chloride of Lime Sol'n | 1 | 5 | 5 | 3 | 5 |
| Chlorinated Paraffin | | 3 | 5 | 3 | 5 |
| Chlorobenzene | | 0 | 3 | 0 | 5 |
| Chloroform | | 0 | 0 | 0 | 5 |
| Ciopen A30 | | 3 | 3 | 1 | 5 |
| Ciopen A60 | | 3 | 3 | 1 | 5 |
| Citric Acid | 10 | 5 | 5 | 3 | 5 |
| Citric Acid | 30 | 5 | 5 | 3 | 5 |
| Cleaning Agent (for Heavy Duty Vehicles) | 10 | 3 | 3 | 0 | 5 |
| Cleaning Agent (for Heavy Duty Vehicles) Concentrated | | 3 | 3 | 0 | 5 |
| Cleaning Petrol | | 5 | 5 | 5 | 5 |
| Coconut Fatty Acid | | 5 | 5 | 5 | 5 |
| Coconut Oil | | 5 | 5 | 5 | 5 |
| Cod Liver Oil | | 5 | 5 | 5 | 5 |
| Common Salt Sol'n | 5 | 5 | 5 | 5 | 5 |
| Common Salt Sol'n | Sat'd | 5 | 5 | 5 | 5 |
| Copper Sulphate Sol'n | 30 | 5 | 5 | 5 | 5 |
| Cotton Seed Oil | | 5 | 5 | 5 | 5 |
| Creosote | | 3 | 3 | 1 | 5 |
| Cresylic Acid | | 0 | 3 | 0 | 3 |
| Crude Oil | | 5 | 5 | 5 | 5 |
| Cyclohexanol | | 5 | 5 | 3 | 5 |
| Cyclohexanone | | 0 | 5 | 0 | 5 |
| Deionized Water | | 5 | 5 | 5 | 5 |
| Detergent Sol'n | 3 | 5 | 5 | 5 | 5 |
| Diacetone Alcohol | | 1 | 3 | 1 | 5 |
| Dibutyl Phthalate | | 5 | 5 | 5 | 5 |
| Dichlorobenzene | | 3 | 5 | 3 | 5 |
| Dichloroethane | | 0 | 3 | 0 | 5 |
| Dichloroethylene | | 0 | 3 | 0 | 5 |
| Dichloropropane | | 1 | 3 | 0 | 5 |
| Dicyclopentadience | | 1 | 3 | 0 | 5 |

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Attacked on contact or within 2-3 hours.

| CHEMICAL (tested at 20–25 °C unless stated) | % | TEST RESULT | | | |
|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Diesel Oil | | 3 | 5 | 1 | 5 |
| Diethanolamine | | 3 | 3 | 3 | 5 |
| Diethylamine (ad. Sol'n) | 50 | 0 | 3 | 0 | 5 |
| Diethylamine (ad. Sol'n) | 60 | 0 | 0 | 0 | 5 |
| Diethylene Glycol | | 0 | 3 | 0 | 5 |
| Diethylene Glycol Monobutyle Ether | | 3 | 3 | 0 | 5 |
| Diethylene Glycol Monoethyl Ether | | 0 | 3 | 0 | 5 |
| Diethylene Glycol Monomethyl Ether | | 0 | 3 | 0 | 5 |
| Diethylene Triamine | 100 | 0 | 0 | 0 | 0 |
| Diethylether | | 3 | 3 | 0 | 0 |
| Di-isobutyl Ketone | | 1 | 3 | 1 | 5 |
| Dimethylamine (aq. Sol'n) | 40 | 1 | 3 | 0 | 5 |
| Dimethylamine (aq. Sol'n) | 50 | 0 | 0 | 0 | 5 |
| 2-Diethylaminoethanol | | 3 | 3 | 1 | |
| Dimethyl Formamide (DMF) | | 0 | 0 | 0 | 0 |
| Di-N-butyl Phthalate | | 5 | 5 | 5 | 5 |
| Di-octyl Phthalate | | 5 | 5 | 5 | 5 |
| Dipentene | | 5 | 5 | 3 | 5 |
| Di-propylene Glycol | | 5 | 5 | 5 | 5 |
| Dishwashing Detergent | 3 | 5 | 5 | 5 | 5 |
| Dutrex 217 UK | | 3 | 5 | 0 | 5 |
| Electrocoating | | 5 | 5 | 0 | 5 |
| Epichlorohydrin | | 0 | 3 | 0 | 5 |
| Ethanol | 10 | 5 | 5 | 5 | 5 |
| Ethanol | 15 | 5 | 5 | 5 | 5 |
| Ethanol | 70 | 3 | 3 | 1 | 5 |
| Ethanol | 96 | 0 | 1 | 0 | 5 |
| Ethanolamine | | 0 | 0 | 0 | 5 |
| Ethyl Acetate | | 0 | 0 | 0 | 5 |
| Ethyl Acrylate | | 0 | 0 | 0 | 5 |
| Ethyl Benzene | | 3 | 3 | 0 | 5 |
| Ethyl Glycol | | 5 | 5 | 0 | 5 |
| Ethylene Glycol | | 5 | 5 | 5 | 5 |
| Ethyl Glycol Acetate | | 5 | 5 | 3 | 5 |
| Ethylene Glycol Monomethyl Ether | | 0 | 0 | 0 | 0 |
| Fish Oil | | 5 | 5 | 5 | 5 |
| Formaledhyde | 40 | 3 | 5 | 0 | 5 |
| Formaledhyde | 100 | 1 | 3 | 0 | 5 |
| Formic Acid | 5 | 3 | 3 | 0 | 5 |
| Formic Acid | 10 | 3 | 3 | 0 | 5 |

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| CHEMICAL (tested at 20–25 °C unless stated) | % | TEST RESULT | | | |
|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Formic Acid | 20 | 0 | 0 | 0 | 5 |
| Formic Acid | 30 | 0 | 0 | 0 | 5 |
| Formic Acid | 98 | 0 | 0 | 0 | 5 |
| Furfuryl Alcohol | | 0 | 3 | 0 | 5 |
| Glycerol | | 5 | 5 | 5 | 5 |
| Grape Juice | | 3 | 5 | 3 | 5 |
| Groundnut Oil | | 3 | 5 | 3 | 5 |
| Heptane | | 3 | 5 | 3 | 5 |
| Hexane | | 3 | 5 | 3 | 5 |
| Hexylene Glycol | | 3 | 5 | 3 | 5 |
| Hydrochloric Acid | 5 | 3 | 5 | 0 | 5 |
| Hydrochloric Acid | 10 | 3 | 3 | 0 | 5 |
| Hydrochloric Acid | 36 | 0 | 3 | 0 | 5 |
| Hydrochloric Acid | 20 | 0 | 0 | 0 | 5 |
| Hydrogen Peroxide | 3 | 1 | 5 | 0 | 5 |
| Hydrogen Peroxide | 30 | 0 | 0 | 0 | 5 |
| Hydrogen Sulphide | | 3 | 3 | 0 | 5 |
| Iso-amyl Acetate | | 5 | 5 | 3 | 5 |
| Iso-butanol | | 1 | 3 | 1 | 5 |
| Iso-butyl Acetate | | 3 | 3 | 1 | 5 |
| Iso-phorone | | 1 | 3 | 0 | 5 |
| Iso-phorone Diamine | | 0 | 3 | 0 | 5 |
| Isoprene | | 1 | 3 | 1 | 5 |
| Iso-propanol | | 1 | 3 | 0 | 5 |
| Jet Fuel | | 1 | 5 | 0 | 5 |
| Kerosene | | 1 | 5 | 0 | 5 |
| Lactic Acid | 2 | 5 | 5 | 3 | 5 |
| Lactic Acid | 5 | 1 | 3 | 1 | 5 |
| Lactic Acid | 30 | 0 | 3 | 0 | 5 |
| Lactic Acid | 90 | 0 | 1 | 0 | 5 |
| Lard | | 5 | 5 | 5 | 5 |
| Linseed Fatty Acid | | 5 | 5 | 5 | 5 |
| Linseed Oil | | 5 | 5 | 5 | 5 |
| Maleic Acid | 30 | 3 | 5 | 3 | 5 |
| Methanol | | 0 | 1 | 0 | 5 |
| Methylene Chloride | | 0 | 0 | 0 | 0 |
| Methly Ethyl Ketone (MEK) | | 0 | 0 | 0 | 5 |
| Methyl Glycol Acetate | | 1 | 3 | 1 | 5 |
| Methyl Isocbutyl Ketone (MIBK) | | 0 | 3 | 0 | 5 |
| Methyl Methacrylate | | 0 | 5 | 0 | 5 |

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|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Milk | | 5 | 5 | 5 | 5 |
| Mineral Oil | | 5 | 5 | 5 | 5 |
| Molasses | | 5 | 5 | 5 | 5 |
| Morpholine | | 0 | 3 | 0 | 5 |
| Naptha (Petroleum) | | 1 | 3 | 1 | 5 |
| Naptha (Solvent) | | 1 | 3 | 0 | 5 |
| Napthenic Acid | | 5 | 5 | 5 | 5 |
| n-butanol | | 5 | 5 | 1 | 5 |
| n-butyl Acetate | | 5 | 5 | 1 | 5 |
| n-heptanol | | 5 | 5 | 3 | 5 |
| n-hexanol | | 5 | 5 | 3 | 5 |
| Nitric Acid | 1 | 5 | 5 | 1 | 5 |
| Nitric Acid | 3 | 5 | 5 | 0 | 5 |
| Nitric Acid | 5 | 0 | 1 | 0 | 5 |
| Nitric Acid | 10 | 0 | 1 | 0 | 5 |
| Nitric Acid | 20 | 0 | 1 | 0 | 5 |
| Nitric Acid | 65 | 0 | 0 | 0 | 0 |
| Nitrobenzene | | 0 | 0 | 0 | 5 |
| Nitro-ethane | | 0 | 0 | 0 | 0 |
| Nonanol | | 3 | 5 | 3 | 5 |
| Nonyl Phenol | | 3 | 5 | 3 | 5 |
| n-pentane | | 3 | 5 | 3 | 5 |
| Octanol | | 3 | 5 | 3 | 5 |
| Oleic Acid | | 3 | 3 | 0 | 5 |
| Olive Oil | | 5 | 5 | 5 | 5 |
| Orthophosphoric Acid | 85 | 0 | 3 | 0 | 5 |
| Oxalic Acid | 2 | 3 | 5 | 1 | 5 |
| Oxalic Acid | 10 | 1 | 3 | 0 | 5 |
| Palm Kernel Oil | | 5 | 5 | 5 | 5 |
| Paraffin | | 5 | 5 | 5 | 5 |
| Paraffin Wax | | 5 | 5 | 5 | 5 |
| Pentane (Mixed Isomers) | | 3 | 5 | 3 | 5 |
| Perchlorethylene | | 3 | 3 | 1 | 5 |
| Perchloric Acid | 30 | 1 | 3 | 0 | 5 |
| Petrol | | 1 | 5 | 0 | 5 |
| Petroleum Ether | | 1 | 5 | 1 | 5 |
| Phenol | | 0 | 0 | 0 | 5 |
| Phosphoric Acid | 5 | 5 | 5 | 0 | 5 |
| Phosphoric Acid | 10 | 3 | 5 | 0 | 5 |
| Phosphoric Acid | 50 | 1 | 3 | 0 | 5 |

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|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Photographic Developer Sol'n | 10 | 5 | 5 | 5 | 5 |
| Pine Oil | | 5 | 5 | 5 | 5 |
| Polypropylene Glycol | | 5 | 5 | 5 | 5 |
| Patassium Dichromate | 20 | 5 | 5 | 3 | 5 |
| Patassium Hydroxide Sol'n | 5 | 5 | 5 | 5 | 5 |
| Potassium Hydroxide Sol'n | 10 | 5 | 5 | 5 | 5 |
| Potassium Hydroxide Sol'n | 20 | 3 | 5 | 3 | 5 |
| Potassium Hydroxide Sol'n | 50 | 1 | 5 | 0 | 5 |
| Seawater | | 5 | 5 | 5 | 5 |
| Sec-butanol | | 3 | 5 | 3 | 5 |
| Shell Rotella Oil | | 5 | 5 | 5 | 5 |
| Shellsol A | | 3 | 5 | 3 | 5 |
| Silicone Oil | | 5 | 5 | 5 | 5 |
| Skydrol A500 | | 1 | 5 | 0 | 5 |
| Soap Solution | | 5 | 5 | 5 | 5 |
| Soda Solution (Dilute) | | 5 | 5 | 5 | 5 |
| Sodium Chloride (sat'd Sol'n) | | 5 | 5 | 5 | 5 |
| Sodium Dichromate (aq. Sol'n) | 33 | 3 | 5 | 3 | 5 |
| Sodium Bicarbonate (aq.) | | 5 | 5 | 5 | 5 |
| Sodium Hydroxide | 5 | 5 | 5 | 5 | 5 |
| Sodium Hydroxide | 20 | 3 | 5 | 3 | 5 |
| Sodium Hydroxide | 50 | 1 | 5 | 0 | 5 |
| Sodium Hydroxide @ 60°C | 50 | 0 | 0 | 0 | 5 |
| Sodium Hypocholrite Sol'n 15% available Cl | | 3 | 5 | 0 | 5 |
| Sodium Nitrate | 20 | 5 | 5 | 5 | 5 |
| Solvesso 150 | | 3 | 5 | 3 | 5 |
| Soya Bean Oil | | 5 | 5 | 5 | 5 |
| Stannic Chloride | | 5 | 5 | 3 | 5 |
| Styrene | | 1 | 3 | 0 | 5 |
| Succinic Acid | 10 | 1 | 3 | 0 | 5 |
| Sugar Solution | 30 | 5 | 5 | 5 | 5 |
| Sulphuric Acid | 5 | 3 | 5 | 0 | 5 |
| Sulphuric Acid | 10 | 3 | 5 | 0 | 5 |
| Sulphuric Acid @ 100°C | 10 | 0 | 0 | 0 | 5 |
| Sulphuric Acid | 20 | 1 | 3 | 0 | 5 |
| Sulphuric Acid | 30 | 0 | 3 | 0 | 5 |
| Sulphuric Acid | 50 | 0 | 3 | 0 | 5 |
| Sulphuric Acid | 98 | 0 | 0 | 0 | 0 |
| Sunflower Seed Oil | | 5 | 5 | 5 | 5 |
| Tall Oil | | 5 | 5 | 5 | 5 |

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|---|---|---|---|---|---|
| | | Solvent Free Epoxy Coating | Solvent Free Chemical Resistant Epoxy Coating | Water Born Epoxy Coating | Vinyl Ester |
| Tall Oil Fatty Acid | | 5 | 5 | 5 | 5 |
| Tapwater | | 5 | 5 | 5 | 5 |
| Tartaric Acid | 5 | 3 | 5 | 0 | 5 |
| Tartar Sol'n | 5 | 3 | 5 | 0 | 5 |
| Teepol | | 3 | 5 | 3 | 5 |
| Tert-butanol | | 3 | 5 | 3 | 5 |
| Tetrachloethylene | | 3 | 5 | 0 | 5 |
| Tetrahydronaphthalene | | 3 | 5 | 0 | 5 |
| Toluene | | 0 | 1 | 0 | 5 |
| Toluene-di-isocyanate | | 1 | 3 | 0 | 5 |
| Tributyl Citrate | | 5 | 5 | 3 | 5 |
| 1,1,1 - Trichloroethane | | 3 | 5 | 0 | 5 |
| Trichloroethane | | 0 | 0 | 0 | 5 |
| Triethanolamine | | 3 | 5 | 0 | 5 |
| Triethylene Glycol | | 3 | 5 | 1 | 5 |
| Triethylene Cetramine | | 0 | 3 | 0 | 5 |
| Urea | 30 | 5 | 5 | 5 | 5 |
| Vegetable Juice | | 5 | 5 | 5 | 5 |
| Water | | 5 | 5 | 5 | 5 |
| Water, distilled @ 100°C | | 5 | 5 | 5 | 5 |
| Whisky | | 3 | 3 | 1 | 5 |
| White Spirit | | 0 | 1 | 0 | 5 |
| Wine | | 3 | 3 | 1 | 5 |
| Xylene (Mixed Isomers) | | 0 | 1 | 0 | 5 |

Any recommendation or suggestion relating to the use of the products made by Flowcrete, whether in its technical literature, or in response to a specific enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is for the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.

Note: The data contained herein is based on laboratory tests performed under carefully controlled conditions. No warranty can be expressed or implied regarding the accuracy of this information, as it will apply to actual operational use. Plant operations vary widely, and the individual results obtained are affected by the specific conditions encountered, which are beyond our control.

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