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## CONSTRUCTION CHEMICALS & COATINGS



I am 31 years  
old.

# WELDRITE<sup>®</sup> LW

## INTEGRAL LIQUID WATERPROOFING COMPOUND FOR PLASTER & CONCRETE

### WELDRITE<sup>®</sup> - LW

WELDRITE LW is an integral liquid waterproofing admixture for concrete and cement mortar. It has good plasticizing properties, makes concrete cohesive and prevents segregation. The liquid is to be added to wet concrete or mortar. The product conforms to IS: 2645-1975 as an 'Integral waterproofing Admixture'. It fills up the capillaries in the concrete giving effective waterproofing.

### AREAS OF APPLICATION

It is used for waterproofing of concrete and sand-cement mortar used in basements, roof slabs and screeds, water retaining structures, external plastering, bathrooms and balconies, water tanks, sumps and drains, etc.

### FEATURES & BENEFITS

- ▶ Being a liquid, dispersible in concrete / mortar mixes
- ▶ Makes the concrete / mortar more cohesive
- ▶ Increases durability, by increase in impermeability
- ▶ Economical in application
- ▶ Does not affect the setting time and strength
- ▶ Reduces shrinkage cracks in plaster & concrete
- ▶ Reduces coefficient of capillary action by 35%

### GUIDELINES FOR USE

Add 200 Gms of **WELDRITE - LW** for every 50 kg cement in the concrete/ mortar mix. The recommended dose of **WELDRITE - LW** is mixed into the gauging water, required to prepare concrete / mortar. The concrete or mortar should be mixed for 2-3 minutes to thoroughly disperse. Cure the applied mortar or concrete as per good construction practices.

### PRECAUTIONS & LIMITATIONS

- ▶ Do not add **WELDRITE - LW** directly to cement
- ▶ Maintain water-cement ratio as low as possible.
- ▶ Do not increase the recommended dose of **WELDRITE - LW**.

### TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : Brown
- ▶ Specific gravity : 1.08 ± 0.03

### PACKING

1Ltr, 5 Ltr, 20 Kg, 60 Kg & 230Kg

# WELDRITE<sup>®</sup> URP

WELDRITE<sup>®</sup> URP is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency. It is used for repair of spalled concrete- floors, columns, beams, chhajjas, slabs & waterproofing of toilets & bathrooms, small terraces etc. as it bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance.

## AREAS OF APPLICATION

- ▶ For concrete repairs
- ▶ For waterproofing
- ▶ As a bond coat
- ▶ For cladding
- ▶ As external rendering
- ▶ As bonding slurry coat for pinhole treatment on concrete surface

## FEATURES & BENEFITS

- ▶ Multipurpose - It is multipurpose & economical product, easy to use.
- ▶ Cracking - It prevents cracking by improving flexural strength
- ▶ Hardness - Improves the hardness & prevents dust generation
- ▶ Shrinkage - Reduces drying & aging shrinkage cracks
- ▶ Bonding - Bond strongly to concrete, masonry, stonework, plasters, cementitious surfaces
- ▶ Erosion & corrosion - Improves erosion resistance & prevents corrosion
- ▶ Abrasion resistance - Improves abrasion resistance of the cement mix
- ▶ Grouting - Reduces viscosity of cement injection grout for better fluidity & bonding

## DOSAGE

- ▶ As a waterproofing coating -mix proportion by volume: 1:1.5 ( Loewe's URP:Cement)
- ▶ As a mortar modifier - 10-15% of Loewe's URP by weight of cement
- ▶ As a bonding agent - mix proportion by volume : 1:1 ( Loewe's URP:Cement)

## PACKING

- ▶ 1 Kg, 5 Kg, 20 Kg, 220 Kg , 50/100 Kg on request,

## COVERAGE

- ▶ As a waterproofing coating -22 -25sq ft/ltr in 2 coats
- ▶ As a mortar modifier - 6-7.5Ltr of URP per 50kg of cement
- ▶ As a bonding agent - 45-50 sq. ft/Ltr per coat

## TECHNICAL INFORMATION

- ▶ Waterproofing coating - 1:1.5
- ▶ mortar modifier - 10-15% URP
- ▶ bonding agent - 1:1

# WELDRITE<sup>®</sup> SBR

WELDRITE<sup>®</sup> SBR LATEX is a highly potent and versatile SBR LATEX based liquid for high performance applications in waterproofing and repairs.

## AREAS OF APPLICATION

- ▶ AS BOND COATING  
Plaster to Plaster, Concrete to Concrete, For plaster over brick masonry.
- ▶ As waterproof repair plaster
- ▶ AS CRACK REPAIR  
Plaster Cracks more than 5mm, In gaps developed between masonry and RCC Members.
- ▶ As coating for prevention of corrosion in rebars
- ▶ Efflorescence (salt petre /Damp Surfaces)

## FEATURES & BENEFITS

- ▶ Excellent Coverage - 70-80sq.ft. perlt / in 2 coats, hence economical
- ▶ Less material wastage - material does not fall back/rebound, when used as bonding agent
- ▶ High Bond Strength
- ▶ Prevents leakages & Dampness
- ▶ Enhances strength of a repair mortar & provides Durability

## DOSAGE

- ▶ As a waterproofing coating -mix proportion by volume: 1:1.5 ( loewe's URP:Cement)
- ▶ As a motar modifier - 10-15% of SBR URP by weight of cement
- ▶ As a bonding agent - mix proportion by volume : 1:1 SBR:Cement

## PACKING

- ▶ 1 Ltr, 5 Ltr, 20 Kg  
Larger sizes on request

## TECHNICAL INFORMATION

- ▶ Waterproofing -30sqft in two coats
- ▶ bonding agent - 45sqft for two coats
- ▶ mortar modifier - 5liters per 50kg cement

I am working  
from 13 years.



# WELDPOL

## WELDPOL

**WELDPOL**, a specially formulated acrylic polymeric product is an extremely effective waterproofing compound with a wide range of uses.

## AREAS OF APPLICATION

- ▶ In flat and sloping roofs, domes etc.
- ▶ In sunk portions of bathrooms and toilets.
- ▶ As an additive to cement mortar while plastering external walls.
- ▶ As an effective barrier against leakage from drainage pipes, overflows etc.
- ▶ As an additive to cement mixes for gotai.
- ▶ As additive in cement based external paints, to provide additional protection against rain.

## FEATURES & BENEFITS

- ▶ Highly compatible with cement.
- ▶ Gives high compressive and flexural strength.
- ▶ Alkaline in nature and hence has no adverse effect on concrete and steel.
- ▶ Forms water impermeable film.
- ▶ Improves work ability of mortar.
- ▶ Easy to apply and can be used as a base coat for waterproofing.

## GUIDELINES FOR USE

- ▶ Mix **WELDPOL**, water and cement in the ratio 1 : 1 : 2 by weight to form a slurry.
- ▶ Clean the area where water proofing has to be carried out thoroughly.
- ▶ Apply the slurry with a brush.
- ▶ Allow it to dry for 6 hours.
- ▶ Apply another coat of slurry.

**WELDPOL** gives a coverage of about 80 sq. ft /coat / kg.

**WELDPOL** can also be used in cement mixes. Mix 300 - 1000 g of **WELDPOL** with 50 kg bag of cement and required water.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Solid Content : 46%
- ▶ pH : 9.00
- ▶ Sp Gravity : 1.04

## PACKING

1 Ltr, 5 Ltr & 20 kg, 50 kg, 220 kg

# WELDPOL-GP

**WELDPOL-GP**, a specially formulated polymeric product is an extremely effective waterproofing compound with a wide range of uses.

## AREAS OF APPLICATION

- ▶ In flat and sloping roofs, domes etc.
- ▶ In sunk portions of bathrooms and toilets.
- ▶ As an additive to cement mortar while plastering external walls.
- ▶ As an effective barrier against leakage from drainage pipes, overflows etc.
- ▶ As an additive to cement mixes for gotai.
- ▶ As additive in cement based external paints, to provide additional protection against rain.

## FEATURES & BENEFITS

- ▶ Highly compatible with cement.
- ▶ Gives high compressive and flexural strength.
- ▶ Alkaline in nature and hence has no adverse effect on concrete and steel.
- ▶ Forms water impermeable film.
- ▶ Improves work ability of mortar.
- ▶ Easy to apply and can be used as a base coat for waterproofing.

## GUIDELINES FOR USE

- ▶ Mix **WELDPOL-GP** and cement in the ratio 1 : 1 by weight to form a slurry.
- ▶ Clean the area where water proofing has to be carried out thoroughly.
- ▶ Apply the slurry with a brush.
- ▶ Allow it to dry for 24 hours.
- ▶ Apply another coat of slurry.

**WELDPOL-GP** gives coverage of about 50 sq. ft /coat / kg.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Solid Content : 36%
- ▶ pH : 9.00

## PACKING

1 kg, 5 kg, 20 kg, 50 kg and 220 kg.

I have used many brands of Pipe & Solvent.



# CONCRETE ENHANCER

**CONCRETE ENHANCER**, a specially formulated polymeric product is an extremely effective additive for concrete. It reduces the water permeability of concrete and thus makes it waterproof. It holds cement and sand particles together, creating a network which will reduce water permeability and also reduce chloride ion diffusion. It does not react with any of the components of concrete or admixtures and is completely safe to use.

## AREAS OF APPLICATION

- ▶ Additive for concrete.

## FEATURES & BENEFITS

- ▶ Helps make the concrete waterproof.
- ▶ Reduces surface cracks of concrete.
- ▶ Reduces water permeability of concrete.
- ▶ Reduces corrosion.
- ▶ Increases flexural strength of concrete.

## GUIDELINES FOR USE

- ▶ If concrete is being mixed at site, after addition of water, add 100 — 400 ml of CONCRETE ENHANCER per 50 kg of cementitious material to the mixer. Mix for 2-3 minutes and place the concrete in usual manner.
- ▶ If concrete is being taken from RMC plant, when the concrete is to be poured, add 100 — 400 ml of CONCRETE ENHANCER per 50 kg cementitious material in the transit mixer. The drum should be rotated at high speed for 2 - 3 minutes so that CONCRETE ENHANCER is mixed properly. The concrete can be poured and pumped in usual way

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ pH : 9.00
- ▶ Sp Gravity : 1.04

## PACKING

1 kg, 5 kg and 20 kg, 50 kg, 220 kg.

# PLASTER ENHANCER

**PLASTER ENHANCER**, a specially formulated polymeric product is an extremely effective additive for plaster. It helps in making plaster crack free. It holds cement and sand particles together, creating a network which will reduce water permeability. It can be used with both river sand and crushed sand.

## AREAS OF APPLICATION

- ▶ External plaster.
- ▶ As an additive to screed.

## FEATURES & BENEFITS

- ▶ Helps make the plaster crack free.
- ▶ Disperses uniformly.
- ▶ Reduces water permeability of plaster.
- ▶ Reduces rebound losses.
- ▶ Improves coverage by about 15%
- ▶ Reduces water permeability by 25%

## GUIDELINES FOR USE

- ▶ To the cement and sand mix for plaster, add about half of the water required. Add 100 — 400 ml of **PLASTER ENHANCER**. Add more water as required and plaster in usual way.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ pH : 9.0
- ▶ Solid Gravity : 1.04

## PACKING

5 kg & 20 kg, 50 kg, 220 kg



# WELDJOINT C2C / P2C

**WELDJOINT C2C/P2C**, a specially formulated polymer emulsion helps in forming a strong bond between concrete and concrete.

## AREAS OF APPLICATION

- ▶ As an adhesive agent between concrete and concrete.
- ▶ For crack filling.
- ▶ For bonding of plaster with concrete.

## FEATURES & BENEFITS

- ▶ Provides a very strong bond between concrete and concrete & concrete and plaster.
- ▶ Forms a barrier and thus does not allow water to leak in.

## GUIDELINES FOR USE

### For Bonding

- ▶ Clean the area thoroughly and remove all loose particles, dirt etc.
- ▶ Wet the surface.
- ▶ For concrete joints, **WELDJOINT C2C/P2C** can be used as it is using a paint brush for hard to reach areas. Mix **WELDJOINT C2C/P2C** 1 kg with cement 1 kg to form a slurry. The slurry can be poured at joint area of the old concrete and fresh concreting can be started.

**WELDJOINT C2C/P2C** gives a coverage of about 50 sq. ft / kg.

### For Crack Filling:

Mix 1 part **WELDJOINT C2C/P2C** with 5 parts cement. Add about 1 part water and prepare a paste. Mix 1 part of **WELDJOINT C2C/P2C** with 1 part of cement to prepare a slurry. Apply a bond coat in the crack with a paint brush. When the bond coat is still tacky, fill the cracks with the paste.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Solid Content : 46%
- ▶ pH : 9.00

## PACKING

1 kg, 5 kg, 20 kg, 50 kg & 220 kg.

# WELDJOINT 740

**WELDJOINT 740**, a specially formulated polymer solution helps in forming a strong joint between plaster and concrete. It can also be used in plaster where it helps binding of cement and sand particles.

## AREAS OF APPLICATION

- ▶ As an adhesive agent between concrete and plaster.
- ▶ As an additive in plaster.
- ▶ As an adhesive agent between old and new concrete

## FEATURES & BENEFITS

- ▶ Provides a very strong bond between concrete and plaster.
- ▶ Forms a barrier and thus does not allow water to leak in.
- ▶ Binds sand and cement particles and gives crack free plaster.

## GUIDELINES FOR USE

- ▶ Clean the area thoroughly and remove all loose particles, dirt etc.
- ▶ Apply a coat of the **WELDJOINT 740** uniformly using a paint brush.
- ▶ When the surface becomes tacky, in about 15 minutes, apply a dash (chat) coat of mortar.
- ▶ Plaster the surface in usual manner after a day.

**WELDJOINT 740** gives a coverage of about 80 sq. ft / kg .

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Solid Content : 30%
- ▶ pH : 9.0
- ▶ Bond Strength : 1.38

## PACKING

1 kg, 5 kg, 20 kg, 50 kg & 220 kg.

# WELDRITE GYPBOND C2G

**WELDRITE GYPBOND C2G**, a specially formulated polymer solution helps in forming a strong joint between concrete or plaster and gypsum.

## AREAS OF APPLICATION

- ▶ As an adhesive agent between concrete and gypsum.

## FEATURES & BENEFITS

- ▶ Provides a very strong bond between concrete and gypsum.
- ▶ Forms a barrier and thus does not allow water to leak in.

## GUIDELINES FOR USE

- ▶ Clean the area thoroughly and remove all loose particles, dirt etc.
- ▶ Apply a coat of the **WELDRITE GYPBOND C2G** uniformly using a paint brush.
- ▶ When the surface becomes tacky, in about 15 minutes, gypsum can be put.

**WELDRITE GYPBOND C2G** gives coverage of about 100 sq. ft / kg.

### For Crack Filling:

Mix 1 part **WELDRITE GYPBOND C2G** with 5 parts cement. Add about 1 part water and prepare a paste. Mix 1 part of **WELDRITE GYPBOND C2G** with 1 part of cement to prepare a slurry. Apply a bond coat in the crack with a paint brush. When the bond coat is still tacky, fill the cracks with the paste.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Sp Gravity : 1.30
- ▶ Bond Strength : 0.98

## PACKING

20 kg 50 kg and 220 kg

# TILEBOND

**TILEBOND**, a specially formulated polymer solution helps in forming a strong bond between concrete or plaster and tiles, marble or granite. The tiles, marble or granite can be fixed on very smooth cementitious surfaces using **TILEBOND**.

## AREAS OF APPLICATION

- ▶ As an adhesive agent for fixing tiles, marble or granite.
- ▶ As an adhesive agent between vertical concrete or plaster surfaces and tiles, marble or granite.

## FEATURES & BENEFITS

- ▶ Provides a very strong bond between the two surfaces.
- ▶ It makes the mortar water proof and prevents leakages through the tiles joints to the floor below.

## GUIDELINES FOR USE

### FOR VERTICAL SURFACE

For Vertical surface, mix 500g - 1500g of **TILEBOND** with 50 kg cement. Prepare the paste of required consistency. On the vertical concrete or plaster surface, apply **TILEBOND** with a paint brush. Apply the above mix on tile, marble or granite and fix them on the area where **TILEBOND** was applied. after applying **TILEBOND** on the wall, the tile should be fixed with 30 minutes.

### FOR HORIZONTAL SURFACE

Take 50 kg cement and 150 kg sand. Mix water so that the mix is little dry. To the mix, add 300g - 1000g **TILEBOND**. Add water to make a paste of the required consistency. Use it in normal way for fixing tiles.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ Solid Content : 46%
- ▶ pH : 9.0

## PACKING

5 kg, 20 kg, 50 kg and 220 kg

# CHINA CHIP PROTECT

## On terrace covered with China Chips.

**CHINA CHIP PROTECT**, a specially formulated polymeric product forms a transparent film which stops water leakage or seepage, while maintaining the aesthetics

### FEATURES & BENEFITS

- ▶ Forms water impermeable film.
- ▶ Forms transparent film, thus china chips remain visible.
- ▶ Easy to apply.
- ▶ Stable to sunlight.

### GUIDELINES FOR USE

- ▶ Take out **CHINA CHIP PROTECT** in a container.
- ▶ Apply it using a paint brush.
- ▶ After 24 hrs., apply another coat at right angle to the first coat.

**CHINA CHIP PROTECT** gives a coverage of about 50 sq. ft /coat / kg.

### TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White

### PACKING

5 kg, 20 kg 50 kg and 220 kg

# WELDSHINE

**WELDSHINE**, a specially formulated polymeric product forms a transparent film which prevents any water leakage or seepage.

## AREAS OF APPLICATION

- ▶ On external painted walls. It does not spoil the paint, rather it gives better gloss to the painted surface.
- ▶ As additive in cement based external paints, to provide additional protection against rain.

## FEATURES & BENEFITS

- ▶ Forms water impermeable film.
- ▶ Easy to apply.
- ▶ Stable to sunlight.

## GUIDELINES FOR USE

- ▶ Take out **WELDSHINE** in a container.
- ▶ Apply on the painted surface with a paint brush.
- ▶ Let it dry for 24 hours.
- ▶ Another coat can be applied for added protection.

**WELDSHINE** gives a coverage of about 60 sq. ft /coat / kg.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : White
- ▶ pH : 8.5

## PACKING

5 kg, 10 kg, 20 kg and 50 kg.

# WATERGUARD

**WATERGUARD**, a specially formulated elastomeric coating helps in making the external surface waterproof and provides excellent barrier to carbon di-oxide.

## AREAS OF APPLICATION

- ▶ Concrete surfaces and plastered masonry walls.

## FEATURES & BENEFITS

- ▶ Waterproof Coating
- ▶ Elastomeric in nature- bridges crack up to 0.5mm
- ▶ Excellent barrier to carbon di-oxide, chloride and sulfate ions.
- ▶ Excellent UV stability leading to long life.
- ▶ Possesses anti-fungal and anti-algae properties.

## GUIDELINES FOR USE

- ▶ All surfaces should be dry and clean. They should be free from dirt, oil, grease, algae etc.
- ▶ If the surface is dirty or has moss or algae growth, it should be cleaned properly.
- ▶ All surface cracks should be filled with WELD CRACK FILL.
- ▶ Dilute **WATERGUARD** with equal quantity of potable water and use this diluted product to prime the surface to be coated.
- ▶ After priming, leave it for 3 -4 hours for drying and apply two coats of **WATERGUARD** at time interval of 6 hours in between two coats.
- ▶ Let it air cure for 7 days.

**WATERGUARD** Coverage upto 50 — 60 sqft per kg/Coat.

## TECHNICAL INFORMATION

- ▶ State : Viscous Liquid
- ▶ Colour : White
- ▶ Film, Thickness : 100 — 110 microns
- ▶ Tensile Strength (N/mm<sup>2</sup>) : 1.0
- ▶ Elongation % : 868

## PACKING

5kg & 25kg

# ROOFCOAT

**ROOFCOAT**, a specially formulated coating containing elastomeric acrylic polymers, graded fillers and pigments. It can bridge cracks up to 2 mm wide.

## AREAS OF APPLICATION

- ▶ RCC rooftops

## FEATURES & BENEFITS

- ▶ High tensile strength and elongation.
- ▶ Ease of application.
- ▶ Bridges cracks up to 2 mm wide.
- ▶ No mixing or dilution required at site.
- ▶ Good abrasion resistance and therefore suitable for foot traffic

## GUIDELINES FOR USE

- ▶ All surfaces should be dry and clean. They should be free from dirt, oil, grease, algae etc.
- ▶ If the surface is dirty or has moss or algae growth, it should be cleaned properly.
- ▶ All surface cracks should be filled with **WELD CRACK FILL**.
- ▶ Dilute **ROOFCOAT** with equal quantity of potable water and use this diluted product to prime the surface to be coated.
- ▶ After priming, leave it for Two - Three hours for drying and apply two-three coats of **ROOFCOAT** at time interval of 6 hours in between two coats.

**ROOFCOAT** gives coverage upto 8 —14 sq ft per kg.

## TECHNICAL INFORMATION

- ▶ State : Viscous Liquid
- ▶ Colour : White
- ▶ Film, Thickness : 1 mm
- ▶ Tensile Strength (N/mm<sup>2</sup>) : 3.5
- ▶ Elongation % : 122

## PACKING

5kg & 25kg

# HEATGUARD

**HEATGUARD**, a specially formulated coating containing elastomeric acrylic polymers and micro spheres having heat insulation property. Its 1 mm thick film gives a temperature difference of about 6-7 °C.

## AREAS OF APPLICATION

- ▶ RCC Heat Guard
- ▶ Asbestos Heat Guard.
- ▶ Cement sheet Heat Guard.

## FEATURES & BENEFITS

- ▶ High tensile strength and elongation.
- ▶ Ease of application.
- ▶ It is excellent waterproofing coat.
- ▶ No mixing or dilution required at site.

## GUIDELINES FOR USE

- ▶ All surfaces should be dry and clean. They should be free from dirt, oil, grease, algae etc.
- ▶ If the surface is dirty or has moss or algae growth, it should be cleaned properly.
- ▶ All surface cracks should be filled with WELD CRACK FILL.
- ▶ Dilute **HEATGUARD** with equal quantity of potable water and use this diluted product to prime the surface to be coated.
- ▶ After priming, leave it for 3-4 hours for drying and apply two coats of **HEATGUARD** at time interval of 6 hours in between two coats.

**HEATGUARD** gives coverage upto 10 —16 sqft per kg.

## TECHNICAL INFORMATION

- ▶ State : Viscous Liquid
- ▶ Colour : White
- ▶ Film Thickness : 1mm

## PACKING

5kg & 25kg

# WATER REPELLENT - PWR

## SILICONE BASED WATER REPELLENT FOR EXTERIOR BRICK & STONE MASONRY SURFACES

**WATER REPELLENT - PWR** is a clear silicone based repellent, which penetrates in concrete / cementitious substrates pores, providing an effective water repellent protective coating. Its UV resistant properties make the film durable for outdoor use.

## AREAS OF APPLICATION

- ▶ Cement painted surfaces, concrete, mortar, clay brick surfaces, etc.
- ▶ Natural and artificial stones
- ▶ Mangalore tiled roofs
- ▶ Corrugated AC sheet roofing, etc.

## FEATURES & BENEFITS

- ▶ Ready to use, brush or spray applied
- ▶ Clear coating, non staining. Does not affect the exterior decorative colour
- ▶ Prevents entry of moisture into the wall, but allows moisture to evaporate out
- ▶ Prevent efflorescence and growth of fungus
- ▶ Cost effective
- ▶ Single coat application

## GUIDELINES FOR USE

- ▶ Surface should be dry and free from all debris, dirt, oil, grease, wax and all other contamination, which could prevent penetration.
- ▶ Apply one liberal coat of **WATER REPELLENT - PWR** by brushing evenly on the prepared surface. Allow the surface to dry for a minimum of 24 hrs. For best results.

**WATER REPELLENT - PWR** can also be applied with an airless spray (0.07 - 0.1 N/mm<sup>2</sup> pressure). Before taking up application on a large area, it is advisable to check the performance of the product on a relatively small area.

## PRECAUTIONS & LIMITATIONS

- ▶ Do not dilute with water or by any other means. Close the container lid properly after use
- ▶ Before applying over the natural stones like sand stone, slate or Dhoolpur sampling should be done on a small area to check its suitability.

## TECHNICAL INFORMATION

- ▶ Appearance : Clear
- ▶ Specific Gravity : 1.00 +- 0.03
- ▶ Coverage : Approx. 2-4 m<sup>2</sup> (on brick wall)  
Approx. 3-5 m<sup>2</sup> (on plastered surfaces)

## PACKING

1kg, 5 KG & 20 kg

# CRYSTALLINE

## CEMENTITIOUS CONCRETE WATERPROOFING

**CRYSTALLINE** is a cementitious, brush applied, waterproofing treatment for concrete. When it is mixed with water & applied to concrete, it penetrates into the concrete mass protecting against the passage of water.

**CRYSTALLINE** react chemically to form billions of needle like crystals which blocks the pores, voids & micro cracks in concrete. Pre saturation & subsequent re- wetting of the surface will cause deeper diffusion of the organic chemicals & formation of crystals at greater depth. It may take from seven days to one month to reach its maximum waterproofing capability, depending on the thickness of concrete. Environmental factors such as ambient temperature, density of concrete, moisture present & weather conditions all can effect the timing of sealing process.

## AREAS OF APPLICATION

- ▶ Water Tank
- ▶ Swimming Pool
- ▶ Basements & Lift Pits
- ▶ Toilet & Sunken Portions
- ▶ Terrace, Balconies & Flower Beds
- ▶ Dams & Canals
- ▶ Bridges Decks & Jetties

## FEATURES & BENEFITS

- ▶ Stops water movement through concrete
- ▶ Protects reinforcing steel against corrosion
- ▶ Waterproofs minor cracking & seals shrinkage cracks up to 0.4 mm width.
- ▶ Its waterproofing capability increases with time. i.e. It remains permanently active.
- ▶ Does not get affected by surface wear or abrasion
- ▶ Can be applied to positive or negative side of concrete
- ▶ Non toxic, thus good for use in drinking water containments
- ▶ Treated concrete withstands hydrostatic pressure upto 150 mtr head
- ▶ Easy in application, only mix water at site.
- ▶ Protects concrete against contaminated water & corrosion. Applicable on moist substrates.
- ▶ It allows concrete to breathe, but is not a vapour barrier
- ▶ Waterproofs by deep crystallisation, where slabs or concrete rafts / PCC are to be landscaped.

## METHOD OF APPLICATION

**SURFACE PREPARATION** to old and existing substrates. Remove dirt, laitance, loose particles, paints, etc., by means of mechanical grinding, sandblasting, and pressure water cleaning, or suitable mechanical means. It is extremely important to ensure that the surface should be sound and thoroughly surface prepared, and vacuum cleaned to a finish of a sand paper, to allow **CRYSTALLINE** to penetrate effectively. Thoroughly rinse the surface with water several times to reach a "saturated surface dry" (SSD) condition, where the surface should be damp, without any standing water.

## MIXING OF CRYSTALLINE

Mix **CRYSTALLINE** powder to water in ratio 5 parts powder : 2 parts water for water proofing purpose and 5 parts powder : 1 part water as a putty for repair purpose. Always mix powder to water & stir it well to obtain a lump free mixture. Mix only quantities to be used within 30 minutes. Separate containers of same volume should be used to measure powder & water.

## **DRY SHAKE APPLICATION : On fresh concrete in floors, slabs and horizontal surfaces**

Before final trowelling, **CRYSTALLINE** can be spread 1 kg powder per sq. m. using a sieve or similar device, After the final set of concrete, only sprinkle water for initial curing. 48 hours later, ponding for regular curing can be done.

### **ON EXISTING OR OLD SUBSTRATES WITH DAMPNES.**

Ensure thorough surface preparation by mechanical means, to remove all laitance, etc., to expose the pores in concrete and allow the penetration of the treatment. All crevices and holes in concrete shall be filled with **CRYSTALLINE** powder mixed with water in a ratio of 5 parts powder : 1 part water. Over a concrete substrate in a SSD condition, apply **CRYSTALLINE** mixed in a ratio 5 parts powder : 2 parts clean water, with a clean brush. Use an aggressive circular motion of the brush with slurry. Apply a second coat after 3 to 6 hours.

## **PRECAUTIONS & LIMITATIONS**

- ▶ Application can be done under normal temperature conditions.
- ▶ Heavy traffic should be avoided until the surface is hardened for atleast 5 days.
- ▶ Finishes containing portland cement may be applied over **CRYSTALLINE** after 3 to 4 hours.
- ▶ Any paint or coating should be applied after 28 days only, over **CRYSTALLINE** application, after thorough wire brushing, washing & removing any **CRYSTALLINE** residual on surface.
- ▶ **CRYSTALLINE** has a high pH, when mixed with water. Use protective gloves and clothing & goggles for eye protection.
- ▶ Not recommended over moving joints and structures subjected to movements.
- ▶ Do not apply on dry substrate.

## **TECHNICAL INFORMATION**

- ▶ Colour : Grey
- ▶ Texture : Powder
- ▶ Bulk Density : 1.25
- ▶ Penetration Rate : 2 mm per week or as per availability of pores moisture and freetime
- ▶ Water Pressure Head : Upto 150 m head
- ▶ pH when mixed with water : 11 + 1
- ▶ WELDticle size : 40-150 microns
- ▶ Coverage : 6 - 8 sq. ft. in two coats
- ▶ Shelf Life : One year in original seal pack stored properly

## **PACKING**

25 kg

# WELDCOR

**WELDCOR**, a specially formulated product inhibits the corrosion. It stops chloride from reaching steel bars and thereby helps in prevention of corrosion.

## AREAS OF APPLICATION

- ▶ For all concrete work such as basement walls, outside walls, underground and Overhead tanks.
- ▶ For all RCC walls, pillars etc

## FEATURES & BENEFITS

- ▶ Inhibits corrosion of steel.
- ▶ It saves concrete from Chloride corrosion.
- ▶ Compatible with all normally used admixtures.
- ▶ Highly cost effective,

## CHARACTERISTICS

- ▶ State : Liquid
- ▶ Colour : Brown

## GUIDELINES FOR USE

Dosage of 200-600 ml of **WELDCOR** per 50 kg bag of cement is recommended. Mix **WELDCOR** in the mixer of concrete or RMC truck.

## PACKING

250 kg drums.

The information given herein and otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors, which are outside our knowledge and control, which can affect the use of these products, we cannot accept any injury, loss or damage resulting from reliance upon such information.

# RUSTGONE

## RUST CONVERTER - RUSTGONE

Liquid for cleaning re-bars & steel surfaces

**RUSTGONE** is a chloride free liquid rust converter. It is used effectively to clean rust from steel surfaces before applying any protective coating on it.

## AREAS OF APPLICATION

- ▶ On rebars during repairs to reinforced concrete structures
- ▶ Maintenance of mild steel structures like tanks, water pipelines shuttering plates and other corroded steel surfaces.

## FEATURES & BENEFITS

- ▶ Simple application by brush
- ▶ Effective rust removal, even from areas difficult to reach
- ▶ Contains no chloride - no chance of enhancing corrosion
- ▶ Cost effective coverage

## GUIDELINES FOR USE

In case of heavy rusting of steel reinforcement, M.S. pipelines, M.S. plates or any other M.S. surface, remove the loose rust by wire brushing, chipping, hammering or grinding so that majority of rust scale is removed. Apply **RUSTGONE** on affected surface by using cotton waste swab or by brush application. Leave the surface to react with **RUSTGONE** for atleast 15 to 30 minutes. The rusty surface will change its colour to original blackish steel. Then remove the loose rust particles by scrubbing or simple dusting with the brush. When applied over corroded reinforcement steel, wash the surface with clean water before taking up further work of repairs.

## TECHNICAL INFORMATION

- ▶ Appearance : Brown colour liquid
- ▶ Specific Gravity :  $1.12 \pm 1.20$
- ▶ Nature : Acidic

## PACKING

1Kg, 5 Kg, & 20 Kg

# STEEL GUARD

## RUST PASSIVATOR

A polymer based formulation forms a strong film on steel surface. This inhibits rusting and bonds well with concrete.

## AREAS OF APPLICATION

- ▶ For coating of reinforcement bars especially in repairs.
- ▶ For protection of marine structures and buildings in saline and corrosive environment.
- ▶ For encased steel members in industrial buildings, high tensile wires/ strands/ cables as in pre-stressed concrete sections.

## FEATURES & BENEFITS

- ▶ Total protection to all embedded steel members.
- ▶ Helps in good bonding of steel and concrete.
- ▶ Provides effective barrier to water and other corrosive elements.
- ▶ Easy to apply with a regular paint brush.

## CHARACTERISTICS

- ▶ State : Liquid
- ▶ Colour : Brown

## GUIDELINES FOR USE

- ▶ Remove the rust from the steel surface using a wire brush followed by a treatment of **RUSTGONE** (Please see **RUSTGONE** data sheet).
- ▶ Mix **STEELCOAT** with cement in 1:1 ratio by weight to form a consistent slurry.
- ▶ Apply this mixture on the steel surface with a brush.
- ▶ Allow the coating to dry for 6 — 8 hrs.
- ▶ Apply second coat to ensure that all pin holes are eliminated.
- ▶ Allow the second coat to dry for 6— 8 hrs before proceeding further.

The treated area is further repaired using WELDCRETE J-540 OR WELDCRETE A-440 bond coat followed by cement mortar modified with WELDCRETE J-540 or WELDCRETE A-440 to build up the new concrete layer by layer. (Please see WELDCRETE J-540 or WELDCRETE A440 data sheets).

**STEELCOAT** covers about 80 sq. ft/ coat / kg of steel surface.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : Green
- ▶ Solid Content : 46%
- ▶ pH : 9.0

## PACKING

1 kg, 5 kg & 20 kg.

# WELDCRETE-J540

**WELDCRETE-J540**, an acrylic polymer, helps in strong adhesion of layers of concrete, in new constructions and rehabilitation.

## AREAS OF APPLICATION

- ▶ In repair of damaged RCC structures.
- ▶ In repair of damaged industrial floors and RCC tanks.
- ▶ For restoration of old buildings.
- ▶ For repair of honeycombed structure
- ▶ For bonding of layers of concrete in new construction (construction joints).
- ▶ Mixed along with cement grout to stop water leakages.

## FEATURES & BENEFITS

- ▶ Provide strong bonding between old & new concrete and helps absorb stresses due to differential expansion and contraction.
- ▶ Improves water impermeability.
- ▶ Provides high compressive, tensile & flexural strength.

## GUIDELINES FOR USE

### Polymer Modified Mortar

- ▶ After exposing the reinforcement, it is cleaned and treated with **WELDCRETE-J540** and WELDCOAT-S (Please see WELDCLEAN-R AND WELDCOAT-S data sheets).
- ▶ The loose concrete around this area is then chipped away and removed.
- ▶ Mix **WELDCRETE-J540** and cement in 1:1 ratio to form a consistent slurry.
- ▶ Apply a bond coat using the above slurry with a fine brush to all the exposed concrete.
- ▶ While the bond coat is still tacky, apply the **WELDCRETE-J540** polymer mortar in paste or dough form (the ratios and procedure as shown below), build it up layer by layer, with each layer being not more than 15-20 mm at a time.
- ▶ After the first layer is applied it is left to dry for 24 hours before the second layer is applied.
- ▶ The process is repeated till the old concrete thickness is re-achieved.

### PROPORTIONS:

**WELDCRETE-J540** 1 part by weight

Cement 5 parts by weight

Quartz / River sand 15 parts by weight (for beams and columns a mix of fine and coarse quartz / river sand in the ratio 40:60, while for slabs the fine to coarse ratio is 60:40)

The above are mixed till a dough-like consistency is reached. Small quantity of water (about 3 - 5% by weight of mortar mixture) may be added to help achieve ideal work ability of the dough. A rough test to check the ideal work ability is to drop a fist sized ball made of this dough into the dough mixture from shoulder height. The dough should not shatter on impact. 1. After the polymer mortar has built up the concrete to its original thickness, the treated area is to be kept moist for 4 - 5 days before the final plaster coat is done in the usual manner.

### POLYMER CEMENT GROUT

Take 1 kg of **WELDCRETE-J540**, 4 kg of cement and 2 - 3 kg of water (depending on the flow required) (Polymer : Water : Cement = 1 : 2-3 : 4) by weight.

Mix **WELDCRETE-J540** and water for about 2 minutes.

Add this solution to the cement and mix till a consistent slurry is formed.

Grout as recommended.

Any modification in the proportion may be made in consultation with your RCC consultant or our technical services.

## TECHNICAL INFORMATION

- ▶ State : Liquid
- ▶ Colour : Blue

## PACKING

1 kg, 5 kg, 20 kg and 50 kg.

# CRACKFILL PASTE

READY TO USE CRACK FILLER FOR INTERNAL & EXTERNAL SURFACE CRACKS IN PLASTER

**CRACK FILL - PASTE** is a single pack, ready to use flexible putty for filling the cracks in plastered surfaces.

## AREAS OF APPLICATION

- Internal & external Plastered brick masonry wall cracks of upto 5 mm width

## FEATURES & BENEFITS

- Paste form, easy to apply
- Flexible, therefore does not crack & accommodates minor movements in cracks
- Water based - hence eco-friendly
- Can be applied on damp surfaces but not on cracks with running water
- Over coatable after 24 hours
- Non-staining
- Excellent adhesion with cementitious surface
- UV resistance
- It can be tinted using water-based stainers.

## GUIDELINES FOR USE

Polymer Modified Mortar

- Surface must be free from dust, oil, grease, and loose particles etc.
- Moisten the surface before applying **CRACK FILL - PASTE**.
- Fine hair line cracks must be widened up to 1 mm minimum and then filled
- For filling **CRACK FILL - PASTE** on the internal surface, existing POP or painter's putty must be removed till plaster surface is exposed.
- For porous surfaces, apply primer coat prepare with **CRACK FILL - PASTE** and water in 1:1 proportion over the crack.
- Fill **CRACK FILL - PASTE** when the surface is tacky and not dried completely.
- Press **CRACK FILL - PASTE** firmly into the crack with a spatula or putty knives and level with the surface Care must be taken to avoid formation of cavities or bubbles during application.
- Further POP or painter's putty application can be taken up once it is fully dry
- For best results allow **CRACK FILL - PASTE** to cure for 7 days.

## PRECAUTIONS & LIMITATIONS

- Should not be used for cracks more than 5 mm thick
- Not for application in cracks in structural members, expansion joints & separation gaps. Not for cracks in POP or painter's putty
- For application below 10°C, drying time will be delayed
- Container to be tightly closed after application
- Clean tools and hands with soap and warm water

## TECHNICAL INFORMATION

- Appearance : White
- Full curing time : 7 days at 30°C
- Specific gravity : 1.40 ± 0.02 gm/cc
- Coverage : 25-30 running meter/kg (for a length of 1 metre, and depth and width of 5 mm)

**PACKING:** 1 kg, 5 kg & 25 kg

# WELDMICRO

## FLOWABLE MORTAR FOR REPAIRS TO DAMAGED REINFORCED CONCRETE MEMBERS

**WELDMICRO** is supplied as a ready to use dry powder which requires only addition of clean water at site to produce a free flowing non shrink repair micro concrete. This is a cementitious material, with additives, which impart controlled expansion characteristics in the plastic state while minimizing water demand. This is specially designed for repairs to damaged reinforced concrete elements, particularly where areas is restricted and where vibration of the placed material is difficult or impossible.

## AREAS OF APPLICATION

Repair to damaged reinforced concrete elements like beams, columns, wall etc., where access is restricted and compaction is not possible. For Jacketing of RCC columns to increase load taking capacity (strengthening of a vertical member)

## FEATURES & BENEFITS

- ▶ Can be pumped or poured into restricted locations
- ▶ Flowable mortar hence does not require compaction
- ▶ Gaseous expansion system compensates for shrinkage and settlement in the plastic state Develops high initial and ultimate final strengths
- ▶ Offers excellent resistance to moisture ingress
- ▶ Makes repaired sections highly durable
- ▶ Can be applied at 100 mm thickness at one stroke
- ▶ Contains no chloride admixture
- ▶ Rapid strength gain to facilitate early reinstatement

## GUIDELINES FOR USE

Clean the surface and remove loose concrete, any dust, oil, paint grease etc.,

Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Shot blasting is highly recommended. Apply WELDCLEAN-R and WELDCOAT-S over the rusted re-bars For a dry substrate, it should be primed by applying one coat of slurry formed by mixing 1 kg of WELDCRETE J 540 with 1 kg of cement. Mix **WELDMICRO** with water (5.5 to 6 litres per 40 kg bag) till homogeneous mix is obtained, at 30°C Mixing should be done thoroughly with a forced action mixer of adequate capacity, atleast for 5 minutes Pour or pump the mixed **WELDMICRO** into a watertight shuttering in the repaired area, when primer becomes tacky Cure the repaired surface for minimum 7 days.

## PRECAUTIONS & LIMITATIONS

- ▶ **WELDMICRO** can applied in section upto 100 mm deep.
- ▶ For thickness more than 100 mm, addition of pre-calculated aggregates may be required.
- ▶ Consult local WELD office for more details.
- ▶ Strictly follow water-powder ratio as specified, Ensure that the shuttering is 100% watertight
- ▶ Ensure full exposure of reinforcement steel
- ▶ Consult structural engineer if the diameter of rebar is reduced by more than 20% than original diameter.

## TECHNICAL INFORMATION

- ▶ Compressive strength : 100 kg/cm<sup>2</sup> at 1 day
- ▶ 200 kg/cm<sup>2</sup> at 3 days
- ▶ 300 kg/cm<sup>2</sup> at 7 days
- ▶ 400 kg/cm<sup>2</sup> at 28 days
- ▶ Flexural strength : 50 kg/cm<sup>2</sup> at 28 days
- ▶ % water absorption after 24 hrs : 0.45
- ▶ Chloride content : Nil
- ▶ Depth of carbonation, mm : Passes the Accelerated carbonation test
- ▶ 2 hours : Nil
- ▶ 4 hours : Nil
- ▶ Coefficient of thermal expansion :  $10 - 12 \times 10^{-6} / ^\circ\text{C}$
- ▶ Yield : 22 ltrs
- ▶ Coverage: 2.2 sqm per 40 kg pack at 10 mm thickness

**PACKING:** 40 kg

# WELDSEAL-PU

**WELDSEAL PU** is an elastic, single component, self-levelling, moisture curing polyurethane sealant specifically developed to be used as a multi-purpose floor joint sealant in applications. where high chemical resistance to fuels, oils and hydrocarbons is required.

The product is suitable for sealing expansion, construction and dummy joints in rigid pavements, apron areas, runways, taxi tracks, parking bays, hangars and internal and external pedestrian and trafficked joints. Concrete roads, petrol stations, warehouses, showrooms etc are other application areas.

## FEATURES & BENEFITS

- One part - no mixing on site, therefore superior to mix-ratio sensitive products.
- Very fast tack-free time
- Self-levelling - good contact ensured to joint surface - easy to apply
- Pitch-free
- Movement capability +/- 25%
- Bubble-free curing, no weak areas for air bubbles to develop
- Good mechanical and chemical resistance
- Very good adhesion to most construction materials especially concrete without the need of primer
- Permanently elastic over a wide range of temperatures
- Conforms to ISO 11600 F 25 HM, BS 5212:1990 Type FB, EN 14187-5

## TECHNICAL PROPERTIES

- Chemical Basis : Polyurethane
  - Cure Mechanism : Moisture Curing
  - Specific Weight : 1.42 +/- 0.02gr/cc
  - Viscosity : 30.000-40.000 cps
  - Tack free time at 23°C and 50% r.h.
  - Curing at 23°C and 50% r.h. : 40 minutes
  - Hardness Shore A (DIN 53505) : 2,5 mm/24h 25-30
  - Elastic modulus at 100% (DIN 52455) : 25-30
  - Tensile strength (DIN 53504) : 0,5 N/mm<sup>2</sup> 1,5 N/mm<sup>2</sup>
  - Elongation at break (DIN 53504) : 800%
  - Elastic recovery (DIN 52458) : 90%
- |                                 |                  |                |               |
|---------------------------------|------------------|----------------|---------------|
| Chemical resistance to spillage | Dilute acids     | Dilute alkalis | Aviation fuel |
|                                 | Diesel Fuels     | Lubricant oils | Petrol        |
|                                 | Kerosene         | Sea Water      | Lime Water    |
|                                 | Cleansing Agents |                |               |
- Application Temperature : +5°C - +35°C
  - Temperature Resistance : -40°C - +80°C

## SURFACE PREPARATION

Joint surfaces must be dry, clean and free of all contamination. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent. Precast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and dust free

## PRIMING

**WELDSEAL PU** has excellent adhesion properties even without the use of primer on most common building materials. However, natural stone, paints, coatings and other treatments of surfaces may presents a difficult surface to which to adhere. Due to the number of unpredictable natures of these substrates, a preliminary test is recommended. PU Primer may be required for porous surfaces.

## APPLICATION

Recommended application temperatures: 5° - 35°C. For easier use or cold weather application we recommend the material is stored at approximately 25°C prior to use. In order to guarantee free movement of sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore joint backer rod should be used at the proper depth. Apply appropriate primer to joint sides and observe waiting time to avoid any air bubbles which may arise from the solvent heating under un-cured sealant. Firmly extrude sealant into the joint making sure that it is in full contact with the sides of the joint and with the backing rod at the bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

## NOTES

Do not apply in presence of curing silicones

Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling of the sealant. Avoid air entrapment when applying

## PRODUCT

▶ Colour	Grey/black
▶ Packaging	600nilfibil pack — 20 per box
▶ Storage	Store in cool and well-ventilated areas
▶ Shelf Life	12 Months stored correctly

## HEALTH AND SAFETY

Ensure that protective gloves, overalls and protective footwear are worn at all times when handling the material. Avoid skin contact. Should the material come in contact with the skin it may be removed with soap and warm water. If discomfort continues, seek medical advice. If product comes in to contact with eyes, rinse with plenty of fresh water and seek medical advice. For full updated information please see Material Safety Data Sheet .

### WELDSEAL PU LONGING PAVEMENT PERFORMANCE

## DISCLAIMER

The Company's Products are sold subject to the Company's Standard Terns and Conditions of Sale. Products are warranted against defective materials and workmanship. The Company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the Company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products.

Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.

# OUR PRODUCTS

- CPVC • UPVC • PVC • ABS SOLVENT CEMENTS
  - BALL VALVES • TEFLON TAPE
- WATER PROOFING, CONSTRUCTION CHEMICALS
  - SILICONE SEALANTS AND INSTANT GLUE
- RUST REMOVERS AND MANY OTHER PRODUCTS



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