

PRODUCT DATA SHEET

DP80 Waterproofing Liquid

Universal waterproofing and bonding agent

Product Description:

DP80 Waterproof Liquid is a Styrene Acrylic based emulsion, which improves the water resistance and adhesion for Portland cement-based composites.

Typical Properties:

Appearance:	Milky white liquid
Solids (+1%):	30-35%
Viscosity₁ (cP):	<100
pH:	8.0 – 9.0
Specific Gravity:	1.00
Freeze/Thaw Stability:	Good

Features & Benefits:

The addition of **DP80 Waterproof Liquid** confers numerous advantages over untreated mortars and concretes, such as:

- Greatly improved adhesion to substrates, including dense impervious concrete
- Excellent resistance to water and water vapour
- Improved toughness and flexibility
- Better resistance to frost
- UV stability

Applications:

Cement compositions mixed with **DP80 Waterproof Liquid** and water make effective waterproofing slurries that can be used in conjunction with fabric bandage for the following applications:

- Shower floors and walls
- Balcony and veranda floors (when used beneath tiles)
- Reservoirs
- Retaining walls
- Bonding coats for plaster or render
- Waterproofing between two skins of external brick walling
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Mixing with DP80 Waterproof Liquid:

For most applications, replace 10 – 50% of the required water for the cementitious product with **DP80 Waterproof Liquid** depending on the required water resistance. For maximum water resistance, replace 50% of the required water content with **DP80 Waterproof Liquid**.

Waterproofing:

Mix the required amount of **DP80 Waterproof Liquid** and water first, then add the cement slowly to the liquid while mixing to avoid the formation of lumps in the mixture. The product should be mixed using a mechanical mixer at a slow speed (400 – 600 rpm) to ensure a uniform and lump free consistency. The mixture should be mixed periodically during application to prevent settlement.

Bonding:

DP80 Waterproof Liquid and water must be mixed in the required amount at equal proportions. Thereafter, mix clean building sand with cement in equal proportions by volume. Add the powder to the diluted **DP80 Waterproof Liquid** slowly while mixing to ensure a smooth, lump free mixture. Mix periodically during application to prevent settlement.

Cleaning of equipment:

All tools should be cleaned immediately after use because hardened **DP80 Waterproof Liquid** modified cement compositions have excellent adhesion and are therefore difficult to remove. If this important precaution is overlooked, solvents such as white spirit, solvent naphtha or preferably toluene can be useful in removing hardened emulsion modified mortar.

Application of DP80 Waterproof Liquid:

Substrate Preparation:

The concrete substrate must be sound, dry, and free of all contaminants such as oil, coatings, grease and surface treatments. Cement laitance must be removed prior to product application. Weak concrete should be removed and surface defects such as honeycombing areas, voids and blowholes must be fully exposed. Repairs to the substrate, filling of blowholes/ voids and surface levelling must be completed with the appropriate product from SCC's **GripRepair** range before the application of **DP80 Waterproof Liquid** can be begun.

Waterproofing Slurry:

Substrate must be thoroughly saturated with water, but there must be no standing pools of water. While the substrate is still damp, apply a coating of the waterproofing slurry. Pre-cut the fibre bandage, soak it in the waterproofing slurry and smooth it onto the primed substrate. Overlaps of the fibre bandage must be a minimum of 50mm. Once the entire area to be treated is complete, apply a generous coating of the waterproofing slurry and allow the product to dry. It is recommended to apply a finishing coat of the slurry thereafter to complete the product application.

Bonding:

Saturate the substrate. While it is still damp with no standing water, apply a coat of bonding slurry using a block brush. Immediately apply a render of screed while the slurry is still wet.

Water Retaining Structures – Ponds:

Cement is highly alkaline and will have an initial effect on the pH of the water added to the structure. The structure must be adequately washed out after application of **DP80 Waterproof Liquid**. Ensure that any water within the structure or pond is appropriately conditioned and stable before any fish are introduced.

Limitations:

- Product should not be applied during temperature extremes. Application temperature should not be below 5°C or above 30°C.
- Freshly applied **DP80 Waterproof Liquid** should be protected from damp, condensation, and water for at least 12 hours after product application.
- All water containing structures should undergo water conditioning to the required specification of their use, before being placed into operation.
- Protect from wind and direct sunlight for at least 24 hours after application. For continuous submersion applications, allow the treated surface to cure for at least 48 hours before submerging.

Storage and Shelf Life:

DP80 Waterproof Liquid can be stored for 6 months in closed, unopened original drums or plastic buckets, provided the temperature does not fall below 5°C or exceed 40°C. Keep out of direct sunlight and protect from frost.

Health and Safety Information:



Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. For further health and safety information refer to the product SDS.



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