Buildproof-ACR (Liquid applied, UV Resistant, Elastomeric, Acrylic Waterproofing Coating)

Buildproof-ACR is a high build acrylic polymer based elastomeric waterproofing coating with excellent durability in harsh & hot Middle East climatic conditions. The dry film of BUILDPROOF-ACR possesses superior physical properties. It is an ideal coating for use on vertical as well as horizontal surfaces because of its excellent durability, flexibility and thixotropic nature.

Features: The dry membrane is water tight, seamless, durable, UV resistant, vapour barrier, tough and highly flexible, with long term weather resistance, particularly suitable for waterproofing of roofs, wet areas such as kitchens, bathrooms, balconies, exposed corrugated sheets, etc. BUILDPROOF-ACR coating is safe for pedestrian traffic and available in multiple colours.

Uses: The product is especially developed for giving an elastomeric, monolithic seal, covering uniformly uneven profiles and protection of the substrate. BUILDPROOF-ACR provides protection against weathering, ageing and ultraviolet radiation to substrates including masonry, stones, marbles, granite, metals, etc.

Advantages:

- Single component ready to use, easy applications like paint application
- Highly Flexible, allows hairline cracks in the substrate to be bridged over
- Protects and waterproofs various metal substrates including GI & Aluminium
- Permanently flexible, UV resistant, withstands temperature from -5^0C to 90^0C
- Non flammable, non hazardous, & Excellent anti-carbonation protection
- Tough surface, allows pedestrian traffic after 24 hours of application
- Superior adhesion, bonds to porous and non porous substrates
- Formulated to withstand harsh Middle East climate
- High resistance to carbon dioxide diffusion

Directions for use:

Surface Preparation: The Surface should be clean, dry and free from oil, grease, curing compound, any loose materials and foreign particles. The substrate should be firm, in case of gaps and cracks fill with suitable material and ensure that the surface is even

Priming: If the substrate is porous, it is recommended to prime the substrate diluted in ratio of one part of BC Buildproof-ACR and three parts of water and mix to a homogeneous liquid and apply by brush or roller.

Mixing: Stir well the whole pack of 20kg material with a hard clean stick before use. Do not use water or any fluid to improve consistency or flow ability.

Application: Apply the material on the surface using brush or roller. A second coat is applied at right angle after the first coat is fully dry. It is recommended to apply two coats of **Buildproof-ACR** to get a dry film thickness of 2.5mm (approx). Embed glass fibres mesh around pipes, over cracks, ridges of the roof, joint movements, corners & edges, gutter channels, etc. A third coat may be applied where pedestrian traffic is expected.

Precautions:

Asphalt roof surfaces to be coated with Buildproof-ACR must be at least one year old and load bearing. Application when rain threatens should be avoided for all substrates.

The application at temperatures below 5^0C will result incomplete film formation and reduced elasticity as well as possibility of formation of cracks. particularly in case of thick coat.

Low temperatures and high atmospheric humidity (such as fog) will slow down curing rate, and vice versa. Buildproof-ACR membranes are resistant to the abrasion or light pedestrian traffic. However, they can be damaged by heavy traffic, high heeled shoes and furniture, and thus should be protected by tiles, slabs, etc.

Curing:

Curing is not generally required. However, under extreme conditions-high temperatures and drying winds cover the surface with polythene sheeting, tape down at the edges of polythene sheets after application & Keep the area covered for a minimum of 12 hours.

Workability:

Working time of Buildproof-ACR is 30 minutes at 25^0C

Coverage:

Each pack of 20kg will cover an area of up to 20 m² in two coats to get an average dry film thickness of 2.0mm

Typical Properties:

Appearance	:	Thixotropic
Available Colours	:	White/Grey/Beige
Specific Gravity	:	1.3 ± 0.05 (ASTM D1475-98)
pH Value	:	8 to 8.5
Solid Content, % by wt	:	65 ± 0.05 (ASTM D 1644-01)
Elongation at break	:	≥ 300% (ASTM D 412: 02)
Tensile Strength	:	$1.8N/mm^2$ (ASTM D41-98 a)
Adhesion Strength	:	$60\text{-}70N/mm^2$ (ASTM D903-98)
Pull off Strength	:	2.704 N/mm2 (BS 1881)
Hardness Shore A	:	55±5 (ASTM D 2240 -05)
VOC Content	:	0.005 g/l (ASTM D 2369-98)
Water permeability	:	Nil (BS EN 12390)
UV Resistance	:	Excellent

Pack Size: 20 kg pails, 200kg drums

Shelf Life & Storage:

12 months if stored properly in original unopened packing in a cool, dry, and ventilated conditions away from direct sunlight.

Handling:

Buildproof-ACR is a non- flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature.

Precautions:

- Proper & even application & curing is required
- Store materials in a cool, dry, & ventilated place
- Do not use material at temperatures less than 10^0c
- Rate of strength and performance gain is significally affected at temperature extremes

Technical support:

GMC offers comprehensive technical support service & specification assistance in locations to our channel partners, end users, and contractors.

Quality & Care:

All the products manufactured and originated from Gulf Minerals and Chemicals, UAE facility are independently tested and certified under a GMC Management System to conform to the requirements of the quality, environmental, health & safety Standards.

Health & Safety Precautions:

During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Splashes of Buildproof-ACR should be washed off immediately with clean water. Wear necessary gloves and dust mask.

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