

Product Data Sheet

CONCRETE SUPER PLASTICIZER.

PRODUCT DESCRIPTION

G-CRETE 30 is a acrylic based polymer when blended with cement forms a modified cementitious waterproofing coating. This coating enhances the bonding strength, and forms a waterproof and protective layer over the substrate.

USES

- Suitable for various substrates (concrete roof, tanks, asphalt, balconies and terraces).
- For making mortar, concrete screed or as additive to cement based paints for waterproofing.
- As a bonding agent in repair and plastering.
- Can be applied on dry to slight damp surfaces.
- Recommended for both internal and external application.

ADVANTAGES

- Excellent adhesion to concrete surfaces.
- Protects the substrate from water penetration.
- Enhance the property of the coating system when used in conjunction with cement.
- Can be diluted with water depending on the type of application.
- UV Resistant, hence suitable for external application.
- Non-toxic.

TECHNICAL INFORMATION

PROPERTIES	SPECIFICATION
Colour and Appearance	Milky White Liquid
Pot life	20 – 30 min @ 30°C
Specific Gravity	1.01 ± 0.03 @ 30°C
Application temperature	> 10°C < 40°C

APPLICATION INSTRUCTION

Surface Preparation

Any substrate should be cleaned to remove all dust, foreign matters, loose materials or any deposits that affects bonding. Any surface defect should be repaired prior to application of G-Crete 30. All concrete surfaces shall be thoroughly pre-wetted for at least one hour prior to the application of G-Crete 30 coating. This can be done by pouring water on flat surface or by vigorously spraying water on vertical/inclined surfaces. Ensure that surface is only damp and not standing water or a shiny wet surface during the application of G-Crete 30.

Priming

Before application, the surface should be primed with the material in the ratio of 1:2:3 (G-Crete 30 : Water : Cement)

Top Coat

G-Crete 30 is an acrylic polymer mixed directly with cement in the ratio of 1:2 (G-Crete 30 : Cement) to obtain a uniform consistent mixer. Gradually start the addition of cement powder under constant mixing with stirrer using a pneumatic or electric power tool (1kw) at slow speed at 250-300 rpm. The mix has to be stirred for 3 minutes thoroughly until no air bubbles remain in the mix. Any lump found in the mix should be removed.

Curing

Normally, two coats of application of G-Crete 30 are recommended. First coat should be allowed to air dry for 5-6 hours. After application of final coat of G-Crete 30, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on G-Crete 30 coated substrate. Following moist curing, the G-Crete 30 coating shall be allowed to air dry for 3 days before submersion in water if required for use. During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions.

Coverage

The coverage will vary depending on the type of the substrate quality and method of application. Approximately, 1.5-2.0 Kg / m² at 1mm thickness for two coats. For more details contact our technical team.

Cleaning

Clean all tools and application equipment with clean water immediately after use. Harden or full cured material can only be removed mechanically.

Limitations

Application of G-Crete 30 is not suitable for wet surface and during rain. Also, G-Crete 30 applied substrate is not suitable for machinery or vehicular movement; only foot traffic is allowed.

PACKING

G-Crete 30 is product available in 20 Kg bucket.

STORAGE

G-Crete 30 has a Shelf life of 24 months from the date of manufacturing, if unopened containers are stored in a cool and dry place. Protect from frost.

SAFETY PRECAUTIONS

G-Crete 30 is non-toxic and non-flammable. Avoid prolonged contact with skin. Wear protective gloves for hands and goggles for eyes. Any splashes on the skin / eyes should be washed immediately with clean water. In the event of prolonged exposure, seek medical attention.

MULTIFUNCTIONAL APPLICATION DETAILS

Application	G-Crete 30 : Water: Cement	Dilution in water	Application Area	Consumption / Coverage of G-Crete 30
Waterproof coating	1 : Zero : 2	No dilution	Waterproofing Coating	0.400 Kg per sqm for two coats
Cement slurry/ Bond	1 : 2 : 3	1:2	Bond coating	0.200 Kg per m ² for single coat
Mortar(1:4)	-	1:4	Polymer Repair Mortar	0.160 Kg per Kg of Cement
Concrete (1:2:4)	-	1:4	Repair & Concrete screed	0.120 Kg per Kg of Cement
Additive to Cement based paint	-	-	External coating for buildings (Light Shades)	Upto 2.5 Kg per 25 Kg pack of Cement Paint

The information given in this data sheet is based on both current development and many years of field experience. While every effort is made to ensure that the information is reliable, we cannot accept responsibility of any work carried out with our products as we have no control over the application procedure adopted at site and site conditions. In view of continuous research and development in our laboratory, we advise customers, in their own interest, to ensure that this data sheet has not been superseded by any other publication. Field services where provided, does not constitute supervisory responsibility. For additional information, Golden Chemical local representative or customer care department may be contacted.