

1.0 Description:

- One component non shrinkage cement base ready mix repairing mortar used for grouting cement substrata.
- Max aggregate size 1.2 mm.
- Achieves high strength in shorter time.
- High adhesion.
- Non-corrosive metal free mortar, thus not attack reinforcement.

2.0 Uses:

- Grouting holes till thickness (10 X 10) cm and narrow spaces.
- Grouting the upper space of the column chemise for thickness up to 5 cm.
- Grouting under machines, to get high strength non-shrink mortar.

3.0 Approval & Certification:

Compressive strength	: EN 1015-11
Flexural Strength	: EN 1015-11
Shrinkage Test	: ASTM C157-8

4.0 Colours:

Grey Cementous colours

5.0 Product Data:

For Plastic Consistency W/C 10.5%:

Density on wet	: 2.22	gm/cm ³		
	<u>7 days</u>	<u>28 days</u>		
Compressive strength	43.8	49.0	N/mm ² (water ratio %)	
Flexural Strength	7.4	9.0	N/mm ² (water ratio %)	
	<u>4 days</u>	<u>7 days</u>	<u>14 days</u>	<u>28 days</u>
Shrinkage in Length	-0.06%	-0.078%	-0.085%	-0.092%

For Flowable Consistency W/C 11.75%:

Density on wet	: 2.20	gm/cm ³		
	<u>7 days</u>	<u>28 days</u>		
Compressive strength	37.5	43.9	N/mm ² (water ratio %)	
Flexural Strength	6.2	7.3	N/mm ² (water ratio %)	
	<u>4 days</u>	<u>7 days</u>	<u>14 days</u>	<u>28 days</u>
Shrinkage in Length	-0.075%	-0.090%	-0.096%	-0.103%

6.0 Consumption per coat:
Consumption : 2.00 - 2.25 kg/m² for 1 mm thickness

7.0 Surface Preparation:
- Substrate shall be Reinforced concrete with dimension and suitable steel reinforcement.
- Stress shall not be less than 300 kg/cm² or according to project specification.
- Substrate should be free of oil grease, dust, or any other dirt.
- All weak or separated layers in substrate should be removed.

8.0 Application Methods:
1. Put the required water in a suitable container.
2. Add the C-GROUT 70 gradually to the water while mixing. Recommended to use mechanical mixer for at least 3-5 minutes.
3. Wait for 5 minutes before casting to get rid of air bubbles and remix for 2 minutes.

Notes:

- *Temperature of the substrate should be min 10°C and below 40°C.*
- *Good ventilation should be ensured*

9.0 Product mixing Ration by weight:
Water Ratio : 10.50% by weight for plastic consistency
: 11.75% by weight for flowable consistency
Container : Double Sealed plastic bags
Total weight : 5, 25 kg

Notes:

- *Slow Mechanical Mixing is recommended*
- *Mixed component and water should be transferred to a third container and remixing should take place to reach ultimate results*
- *Mixing ratio might vary a bit (±0.5%) depending on the kind of cement used.*

10.0 Pot life, Drying and curing time:
Initial Curing Time : After 24 hours of mixing.
Curing Treatment : Moist curing is recommended for the first 24 – 48 hours according to ambient temperature.
Final Curing Time : After 28 days at ambient temperature.
Pot Life : 30 min. at 24°C

11.0 Disclaimer:

- The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. We cannot guarantee anything but the above-mentioned quality of the products themselves. Minor product variations may be implemented to comply with local requirements. We reserve the right to change the given data without further notice. Users should always consult us for specific guidance on the general suitability of this product for their needs and specific application practices.
- Samples of any approved delivered materials shall be retested after delivery.
- These products are for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to our technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to our responsible representative for approval before commencing the work.

12.0 Handling of Cement Products:

- Avoid contact with eyes and skin. Emergency showers and eyewash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.
- Use personal protective equipment.
- When using, do not eat, drink, or smoke.

13.0 Compatibility:

- Primers applied prior to specified product shall always be acrylic or cement-based products.
- Finishing layers can be cement, acrylic, alkyd, epoxy or polyurethanes products.

14.0 First aid Measures:

- **General advice:** Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- **Eye contact:** Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
- **Skin contact:** Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Initiate and maintain gentle and continuous irrigation.
- Take off contaminated clothing and shoes immediately.
- **Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- **Inhalation:** Move to fresh air.

15.0 Storage:

- Store above ground and surrounded by dikes to contain spills or leaks.
- Do not store in humid or extra hot weathering conditions.
- Keep containers tightly closed away from heat & in dry, cool, and well-ventilated place.