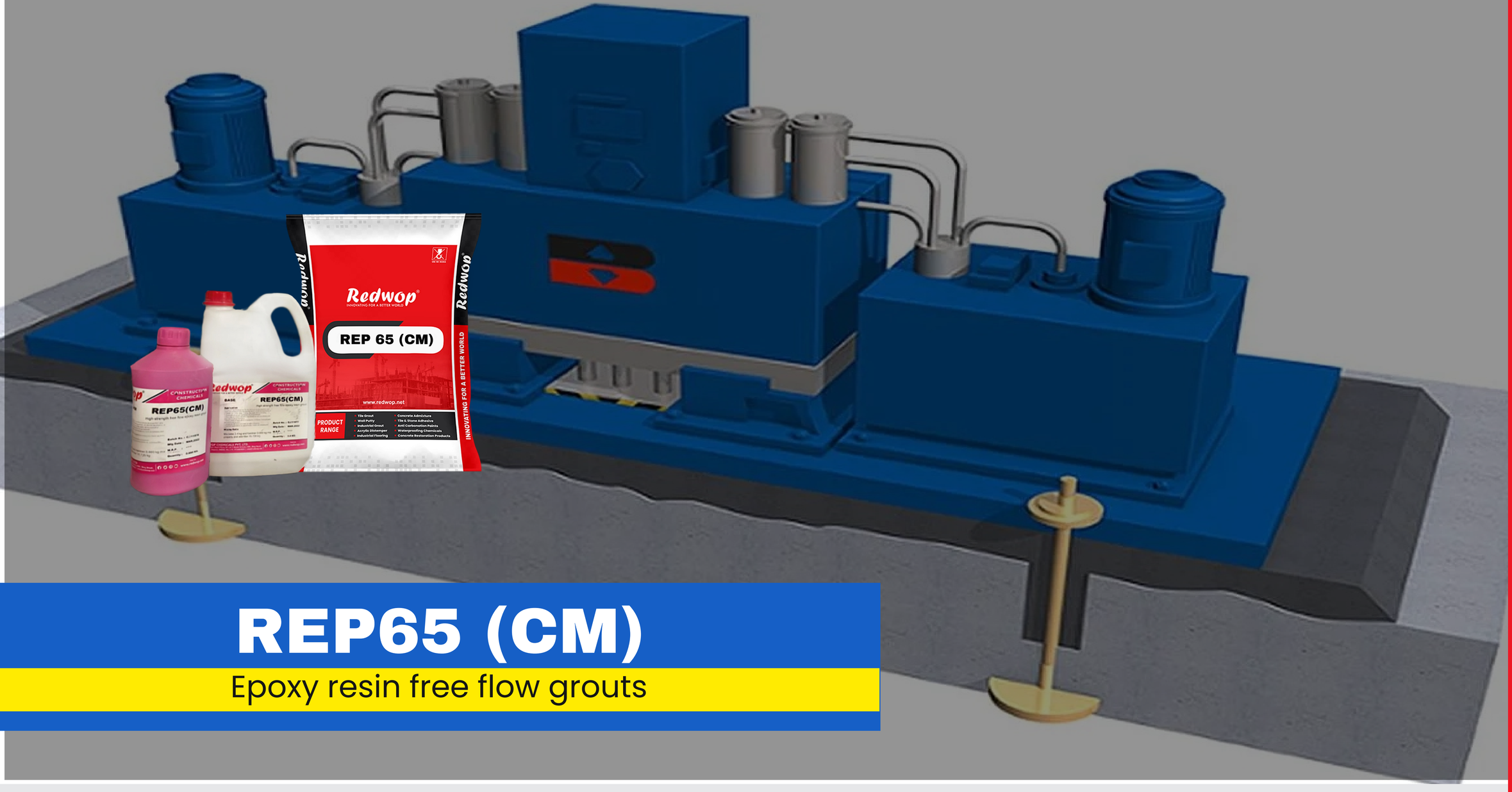

REP65 (CM)

Epoxy resin free flow grouts

NON SHRINK GROUT

Description

REP65 (CM) is an epoxy resin based products designed for free flow grouting of gaps from approximately 5 to 120 mm .It is three component system consisting of base, hardener and filler. For higher thickness of gap you should consult Redwop expert team.

Uses

- In place where heavy dynamic loads are existing
- The gap between a base plate and substrate will need to be filled in such applications as reciprocating machinery, testing equipment ,heavy crane and transporter rails, high speed turbines and centrifuges and drop forges
- In place where chemical spillage is existing
- Steel works, refineries, electroplating works and chemical plants
- Re pro-filling and waterproofing work of pile caps

Advantages

- Under sustained loading possesses low creep characteristics
- Resistant to continuous dynamic loads
- Non-shrink and hence ensures complete surface contact and bond
- High compressive, tensile and flexural strengths
- Fast, convenient installation with early strength gain
- Resistance to wide range of chemicals like oil, grease, fat, mild acid, alkali, fresh and marine water.
- Possesses low exothermic reaction

Method of application

- **Preparation Foundation surface**
  All contact surface must be free from oil, grease, free standing water or any loosely adherent material. Concrete surfaces should be cut back to a sound base. All dust must be removed and bolt holes or fixing pockets blown clean of any dirt or debris. All steel surfaces should be shot blasted free of rust.

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- **Formwork**
  The formwork should be constructed to be leak-proof as REP65 (CM) products are free flowing grouts. Loss of grout once the material is placed, but not hardened, will result in incomplete filling of the gap
- **Mixing**
  Pour all the contents of the hardener packs into the base container. Mix using a slow speed power mixer until homogenous. Pour all the resultant liquid into a container with a capacity of 15 - 20 liters. Add all the filler provided for each product. Mix. Using a slow speed power mixer for 2 minutes or until a uniform colour is achieved in the grout.
- **Placing**
  The mixed grout should be poured steadily from one side only to eliminate the entrapped air. Continuous grout flow is essential. Sufficient grout must be available prior to starting.

Note: Sufficient grout must be prepared before starting. The time taken to pour a batch must be regulated to the time to prepare the next one.

Limitations

- Grouting may be carried out without special precautions at ambient temperatures from 5°C to 30°C, but temperature below 20°C will vary cure rate.
- Continuous sudden change in ambient temperature may leads to crack and peeling in unrestrained grout.

Technical Information

Properties	Results
Density kg/m³	2000
Tensile strength (N/mm²) ASTM C307	15 @ 7days
Flexural strength (N/mm²) ASTM C580	29@ 7days
Compressive strength (N/mm²) ASTM C579 1 day 3 days 7 days	 60 90 100
Resistant to oil Grease Fats Most chemicals Mild acids and alkalis Fresh and sea water	Yes
Linear coefficient of thermal expansion 10 to 6 (mm/mm°C) ASTM C531	42
Water absorption (%) ASTM C413	37
Pot life	80 minutes

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Flow characteristic

- The gap thickness, the head of grout applied and the ambient temperature will decide the flow character of REP 65 (CM).

Gap thickness (mm)	Head (mm)	Max. Flow (mm)
25	100	1200
120	100	2000

Packaging

- REP 65 (CM) is supplied in 5kgs and 50kgs packs (base + hardener +filler)

Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

NON SHRINK GROUT

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