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Technical Data Sheet



SC-040

3D Elastic C500

FEATURES

- High flexibility, 500% elongation
- Good adhesion
- Can be immersed in water
- Can be left bare, or painted or tiled over
- Weather resistance
- External and internal use
- Contains antimicrobial (BioCleanAct)
- Safe and environmentally friendly

DESCRIPTIONS

It is a 2 components high performance waterproofing cement and sealing membrane which provides a total waterproofing system. It is ideal for using in shower recess prior to tiling and can also be used to waterproof terrace, balcony, bathroom, swimming pool, basement, reservoir and water tank. It is highly flexible with 500% elongation, has good adhesion, can bond to various substrates such as concrete, render, existing tile, fiber cement, etc, can be used on existing tile without prior demolition, and is suitable for area with high vibration. It contains BioCleanAct antimicrobial protection to inhibit the growth of stain causing mold and mildew. **It can be left bare without topping.**

APPLICATION

1. Surfaces must be dry, clean, and free of dust, oil, grease and other contaminants.
2. Apply 1 coat of **3D Primer Bonding** on the desired area, and apply it on boundary wall up to 10-20 cm above ground level. Let it dry for 30-60 minutes, or until it changes from milky white to clear.
3. Mix **3D Elastic C500** by low speed mixer and stir until homogeneous before use.
4. For wall/floor junctions or corners, place **RHINOZ Fiberglass Mesh Tape** to reinforce strength and durability.
5. Apply the first coat of **3D Elastic C500** on the desired area by brush or roller, allow it to dry for 2-4 hours.
6. Apply the second coat of **3D Elastic C500** in crosswise direction to the first coat and allow it to completely dry for 7 days before tiling or filling water, water tanks must be rinsed thoroughly prior to filling.

PACKING SIZE

4 kg/set 20 kg/set

STORAGE

Store in a dry place with 1 year shelf life in the original unopened packing.

TECHNICAL DATA

Base	:	(A) Special cement	(B) Acrylic polymer
Appearance	:	(A) Grey powder	(B) White liquid
Density	:	(A) 1.3 g/cm ³	(B) 1.0 g/cm ³
Mixing ratio	:	Part-A:B = 1:1 by weight	
Bucket life	:	6 - 8 hours	(Depending on ambient conditions)
Recoat-time	:	2 - 4 hours	(Depending on ambient conditions and thickness)
Cure time	:	7 days	(Depending on ambient conditions and thickness)
Elongation at break	:	500 %	(ASTM D2370)
Tensile strength	:	1.0 N/mm ²	(ASTM D2370)
Bonding strength	:	1.5 N/mm ²	(ASTM D4541)
Toxicity	:	Non-Toxic	
Coverage	:	0.5 kg./m ² /time	(Thickness 500 microns)



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Application Procedure



Surfaces must be dry, structurally sound, clean, and free of dust, oil, grease and other contaminants with maximum moisture content of 35% humidity). For cracks and hollow joints must be filled with **RF-106 RHINOZ Cement Rapid Filler**.

Apply 1 coat of **3D Primer Bonding** on the desired area, and apply it on boundary wall up to 10-20 cm above ground level. Let it dry for 30-60 minutes, or until it changes from milky white to clear.

Mix **3D Elastic C500** with the ratio of Part-A:B = 1:1 by weight by low speed mixer (300-500 rpm). Pour 3/4 of powder (Part-A) into a suitable container, add a half of polymer (Part-B) gradually in order to obtain a plastic consistency. Mix in the rest of polymer (Part-B), then add powder (Part-A) and mix until homogeneous before use.

For wall/floor and wall/wall junctions and corners, after applying the **3D Elastic C500**, while it is still wet, tape **RHINOZ Fiberglass Mesh Tape** over. Apply the second coat over the fiberglass, ensuring that all of the fiberglass is covered and let it dry.

Apply the first coat of **3D Elastic C500** in the same direction by brush or roller, allow it to dry for 2-4 hours (at room temperature).

Apply the second coat of **3D Elastic C500** in crosswise direction to the first coat, allow it to completely dry for 7 days before tiling or filling water.

Recommendation:

1. For deck, terrace and area with high vibration, the fiberglass tape should be applied onto the whole area.
2. For exposed areas, waterproofing cement should be applied at least 3-4 coats.