



## **RAPID CHEM SOLUTION**

DELIVERING EXCELLENCE

### **Technical Data Sheet RCS-R10/RCS-H20(GROUTING SYSTEM)**

**RCS-R10/RCS-H20** is a state of GROUTING material of highest quality that provides aesthetic effect and durability. It perfectly prevents stains, spillage, chemical attack in filled groove thicknesses of tiles, stones when used with suitable aggregates.

**RCS-R10/RCS-H20** is two part epoxy based formulation having excellent resistance to wear and European choice special sheen affect which makes it a darling choice of consultant fraternity.

Part A consists of a mixture of epoxy resin and additives.

Part B consists of mixture of amines and organic catalysts.

The advantage of epoxy grout system of **RCS-R10/RCS-H20** is its high user friendliness

It is suited for residential and commercial installations including those with total hygiene control, damp and wet environments.

### **FIELDS OF APPLICATION**

Suitable for resistant installation and grouting of floor and wall tiles and mosaic in interiors and exteriors with grout joints between 2 to 15 mm wide, such as:

1. Floor and wall tiles in general
2. Floor and wall tiles in bathrooms and showers
3. Under floor heating
4. Kitchen counter tops
5. Terraces and balconies
6. Dairy & Food Processing Plant

**RCS-R10/RCSH-20** can be used for the grouting of ceramic tiles in environments submitted to direct contact with foods, like workbench of meats, dairy products of floor, basin for fish breeding, workbench in restaurant and bakeries.

Suitable for applications where surfaces are exposed to aggressive chemical substances such as dairies, laboratories, pubs, food factories in general. Also recommended for grouting swimming pools and tanks containing thermal or brackish water.

## SUITABLE SUBSTRATES

<ol style="list-style-type: none"><li>1. Concrete</li><li>2. Brick Masonry</li><li>3. Concrete Masonry</li><li>4. Cement Mortar Beds</li><li>5. Gypsum Wallboard</li><li>6. Ceramic Tile And Stones</li><li>7. Non-Water Soluble Cut-Back Adhesive</li><li>8. Vinyl or other resilient tile</li><li>9. Concrete</li><li>10. Brick Masonry</li><li>11. Concrete Masonry</li></ol>	<ol style="list-style-type: none"><li>12. Cement Mortar Beds</li><li>13. Gypsum Wallboard</li><li>14. Ceramic Tile And Stones</li><li>15. Non-Water Soluble Cut-Back Adhesive</li><li>16. Vinyl or other resilient tile</li><li>17. Plastic Laminate</li><li>18. Cement Backer Board</li><li>19. Steel</li><li>20. Cement Plaster</li><li>21. Cement Terrazzo</li><li>22. Exterior Glue Plywood</li></ol>
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## APPLICATION PROCESS

### Step 1: SURFACE PREPARATION

Makesure tiles are firmly set, and adhesive or mortar is completely dry for 24 hours. Remove all spacers, pegs, ropes and string; clean joints by removing free loose dirt particles. To ensure desired results, a mockup installation is required before the actual installation.

### Step 2: PREPARING MIX

Always mix complete units. Parts A (Base) and B (Hardener) are packaged to the exact quantity ratio for proper mixing. Partial mixing will result improper/no curing of grout. In a clean container, mix Part A and Part B along with suitable aggregates. Use a slow-speed stirrer for mixing to get a homogenous, consistent mix. A small quantity can be mixed manually at the site.

### Step 3: APPLICATION

Press the grout firmly by using a hard rubber squeeze, into joints ensuring that the joints are completely filled. Remove the excess grout material from joints and surface by moving the squeeze diagonally to the grout lines.

### Step 4: CLEANING

Clean off the surplus grout from tile joints and surface after 20-25 minutes with D Shine. Initially use a rough textured sponge dampened with clean water. Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint. After completion of work clean the grout haze from the tile with clean water or soap solution.

## IDENTIFICATION DATA

<b>Appearance</b>	Part A : liquid Part B: Liquid
<b>Shelf Life</b>	12 months in the original packaging in Dry Place
<b>Application Data</b>	
<b>Mixing ratio</b>	As specified
<b>Mix Consistency</b>	Creamy(with aggregates)
<b>Pot Life</b>	About 45 minutes at T= +23° C
<b>Permitted Application Temperatures</b>	From + 12° C to +30° C
<b>Recommended Application Temperatures</b>	From +18° C to +23° C
<b>Walk on Time</b>	24 hours at T= 23° C
<b>Ready for Use</b>	5 Days at T=23° C
<b>Joint Width</b>	From 2 to 15 mm

## PERFORMANCE

<b>Shear Adhesion Strength</b>	Initial > 2 N/ m <sup>2</sup> After Immersion in water > 2 N/ m <sup>2</sup> After Thermal Shock > 2 N/ m <sup>2</sup>
<b>Abrasion Resistance</b>	= 250 mm <sup>3</sup>
<b>Mechanical Flexural Strength After 28 Days in Standard Condition</b>	= 30 N/ mm <sup>2</sup>
<b>Mechanical Compressive Strength After 28 Days in Standard Conditions</b>	= 45 N/ mm <sup>2</sup>
<b>Shrinkage</b>	= 1.5 mm/m
<b>Water Absorption After 4 hours</b>	= 0.1 g
<b>Temperature of Use</b>	From - 20° C to +100° C

## CHEMICAL RESISTANCE

RESISTANCE TO CHEMICAL ATTACKS	
Methanol	Excellent
Ethanol	Good
Xylene	Excellent
Butyl Cellosolve	Excellent
1,1,1-Trichloroethane	Excellent
10% Lactic Acid	Excellent
10% Acetic Acid	Excellent
70% Sulfuric Acid	Excellent
98% Sulfuric Acid	Excellent
50% Sodium Hydroxide	Excellent
10% Sodium Hypochlorite	Excellent
MEK	Good

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## PRECAUTIONS

1. Wear suitable rubber gloves to avoid skin contact during application
2. Never apply the Epoxy Tile Grout on wet/ damp surface
3. Do not allow water to flow/run in to un grouted joints while application
4. Apply masking tapes along tile joints while working on unglazed floor tiles, natural stones tiles with matt glaze or textured surfaces

\*All recommendations for use of our products, whether given by us in writing, verbally are to be implied, from the results of tests carried out by us, Resin on the current state of our knowledge. Although the information contained in this sheet is accurate to the best of our knowledge, no liability can be accepted in respect of such information and no warranty or conditions are intended in respect of the products described, as the conditions of application are beyond our control.

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