

# IMPACT

## DESCRIPTION:

Impact is a two component cementitious plaster system, specifically developed as a highly durable screed render for squash walls. The balanced formula of white cements, graded select aggregates, proprietary additives when blended with a specifically formulated polymer emulsion provide a finished product of exceptionally high strength with superior adhesion and impact resistance. Impact Top Coat. A water-based polyurethane hybrid white surface coating provides the optimum in cleanability and re-coatability. Impact Linemarkers Red is used to line mark courts and will not flake, peel or fade.

## ADVANTAGES:

Situations requiring stronger, more durable compositions, where excellent adhesion is critical, where thin screed applications are required or prepared, Impact provides:

- 1) **Unequalled bond strength** to a wide variety of substrates including concrete, masonry, brick, glass, metal, wood and polymeric foam products.
- 2) **Superior mechanical strength**, tensile strength, flexural strength and impact resistance are significantly improved.
- 3) **Excellent water resistance and abrasion resistance.**
- 4) **Unequalled resistance to discoloration** on exposure to U.V. light.
- 5) **Superior freeze, thaw resistance** and proven **long term durability** in exterior situations.
- 6) **Good chemical resistance** for use in general purpose applications
- 7) **Low Maintenance** – no flaking, cracking or peeling. Simple cleaning only required.
- 8) **Player Satisfaction** – excellent ball response with consistent bounce.

## BUILDING STANDARD:

This should comply with the Squash Rackets Association (SRA) Squash Court Specification. Another acceptable standard is the court specification put out by the International Squash Racket Federation (ISRF).

In general the SRA standard specification recommends the walls be constructed plumb to within 10mm over 4000mm and joints of block and brickwork should not be racked, but left flush-struck.

Only suitable trained and approved applicators are recommended to apply the Impact squash wall coating system. Solid plasterers skilled in the installation of high build polymer modified renders must precisely follow the mixing and application procedures provided by the manufacturer.

## PRODUCT DESCRIPTION:

1. Impact Primer: A single component polymer emulsion coating applied directly to the prepared substrate either by brush, roller or spray. To seal an otherwise porous surface and to provide a prime coat for the following procedure.

2. Impact Base Coat: Comprising two components, Impact Powder and Impact Modifier, to be mixed at the ratio of 5 to 1 by weight i.e. 20kg powder to 4 liters of liquid. To a suitable size container first pour in liquid, agitate slowly (avoid frothing) and gradually introduce powder. Continue mixing to achieve a consistent trowelable blend.  
Scratch Coat : Apply a scratch coat of Base Coat blend to both level out uneven base works and provide a positive key coat. Apply scratch coat to a thickness of approx. 2-3mm.  
Apply base render finish to a thickness of approx. 6-7mm.  
Alternate "Hot Climate" Method. (2 layer application).  
- Apply two layers at approx.4-5mm thickness per layer.
3. Top Coat – Apply a single layer of Top Coat blend to a thickness of 2-3mm.
4. Impact Finish Coat: A single component water based, polyurethane coating applied direct from the container either by brush, roller or spray.

## APPLICATION:

1. Primer – Sealer – Apply one coat of Impact Primer @ 5 to 6m<sup>2</sup> per litre.
2. Base Coat – Apply a scratch coat of Base Coat blend to level out uneven base works @ approx. 2 to 3mm thick.
  - Apply render finish of Base Coat @ approx. 8 to 10mm thick. Alternative Method (Hot Climates)
  - Apply first layer of Base Coat blend @ approx. 4 to 5mm thick.
  - Apply second layer of Base Coat blend @ approx. 4 to 5mm thick.
3. Top Coat – Apply a single layer of Top Coat blend @ approx. 2-3mm thick.
4. Finish Coat – Apply two coats of "Impact Finish Coat" @ approx. 10m<sup>2</sup> per litre per coat.

## COVERAGE:

The playing area of squash court walls total approximately 110m<sup>2</sup> (glass back courts = 95m<sup>2</sup>). Allowing for waste and a degree of surface imperfection the quantities used on average are:

Coverage	Full Court (110m <sup>2</sup> )	Glass Back (95m <sup>2</sup> )
Impact Primer 20L	1	1
Impact Modifier 20L	20	18
Impact Base Coat 20Kg	81	70
Impact Top Coat 20Kg	20	17
Impact Finish Coat 20L	1	1
Impact Linemarkers Red	1	1

# SPORTING SYSTEMS FOR SQUASH COURTS

HIGH BUILD POLYMER MODIFIED RENDER SYSTEM



## IMPACT

### SUBSTRATES:

Blockwork, brickwork and concrete are suitable materials for the construction of play-walls. Blocks should be dense aggregate, Class A with a minimum compressive strength of 7N/mm<sup>2</sup> and well cured. Bricks should be preferably plain to ensure minimum shrinkage. Sand-lime and other “commons” may be used. It is essential that all backgrounds be as dry as possible and free from soluble salts. Cement should be G.P. Portland grade. Sand should be sharp, clean river or pit sand washed to ensure free of salts and other contaminants.

### PRE INSTALLATION CHECKLIST:

- 1) The court walls must be plumb, true and free from surface irregularities.

- 2) The surface must be clean, dry and free from all foreign matter including grease, oil, mould and dirt.
- 3) Suitable building facilities must be available including sufficient lighting, power, clean water and waste disposal facilities.
- 4) Door frames should be fixed 6mm from the face of the back wall to also act as a plaster stop. Where glass back walls are specified the fixing jam should protrude 6mm from the side walls and also act as a plaster stop.
- 5) The wooden court flooring should not be installed until after the application of Impact.
- 6) Suitable building equipment should be available including festo mixer, trowels, screeds etc. and mobile scaffolding

### DESCRIPTION AND DIMENSIONS OF A SINGLES COURT DESCRIPTION:

A Squash Court is a rectangular box with four vertical walls of varying height; being the front wall, side walls and back wall. It has a level floor and clear height above the court area.

### DIMENSIONS:

Length of court between playing surfaces	9750mm
Width of court between playing surfaces	6400mm
Diagonal	11665mm
Height above floor to lower edge of front wall line	4570mm
Height above floor to lower edge of back wall line	2130mm
Height above floor to lower edge of service line on front wall	1780mm
Height above floor to upper edge of board	480mm
Distance to nearest edge of short line from back wall	4260mm
Internal dimensions of service boxes	1600mm
Width of all lines and the board	50mm
Minimum clear height above the floor of the court	5640mm

### NOTES:

1. The side wall is angled between the front wall line and the back wall line.
2. The service box is a square formed by the short line, the side wall and two other lines marked on the floor.
3. The length, width and diagonal of the court are measured at a height of 1000mm above the floor.
4. It is recommended that the front wall line, side wall line, back wall line and board be shaped so as to deflect any ball that strikes them.
5. The board shall not project from the front wall by more than 45mm.
6. It is recommended that the door to the court be in the center of the back wall.
7. The general configuration of a Squash Court, its dimensions and its markings are illustrated on the diagram.

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