



Technical Data Sheet

MANUFACTURER / PRODUCT NAME

Product name:	TRUSAL ® Solid Surface
Manufacturer:	FACTORY AL-ATA AL-MUMAYYIZ FOR MANUFACTURING.
Address:	Saudi Arabia, JEDDAH , (MGJA8434)
Website / Email:	WWW.AL-ATA.COM / INFO@AL-ATA.COM
MOBILE:	+966561530646 +966544306064

PRODUCT DESCRIPTION

TRUSAL ® is a modern solid surface product., a factory one of the leading solid surface manufacturers in the middle east.

TRUSAL ® is a shiny, non-porous solid surface featuring a wide range of colors with a uniform thickness. It is available in sheets and a variety of molded sinks and washbasins. Furthermore, TRUSAL ® is a non-toxic, hygienic, chemical resistant and fire retardant.

Because of its outstanding visual and technical features, TRUSAL ® is the ideal solution for a wide range of applications including but not exclusive of:

Kitchens * Countertops * Internal Facades * Bathrooms * Vanities * Wall Cladding.
Hospitals and Labs * Internal Facades * Other Applications.

PRODUCT COMPOSITION

TRUSAL ® is composed of acrylic modified unsaturated polyester resin (Polyester Resin + MMA), flame retardant natural mineral (ATH – Aluminum Hydroxide), additives and special pigments. please consult the TRUSAL ® Material Safety Data Sheets (MSDS) available via your local supplier.

This exclusive composition accompanied with the latest production technologies used to produce TRUSAL ® provide homogeneous and uniform colors throughout the entire thickness of the solid surface and takes full advantage of the features of the natural mineral and the polymers to provide special characteristics such as toughness and durability, the surface does not help bacterial growth, easy to clean and easy to repair / renew.



TRUSAL ® Sheets

Sheets are available in a variety of standard dimensions and colors. Custom dimensions or colors can be manufactured.

<i>thickness</i>	<i>length</i>		<i>width</i>
6 MM	350 CM	300 CM	76 CM
12 MM	350 CM	300 CM	76 CM
18 MM	350 CM	300 CM	76 CM
25 MM	350 CM	300 CM	72 CM

(3500 mm x 760 mm x 12 mm) TRUSAL ® sheets are available in stock at ATAA distributors' warehouses. Other formats are available upon request provided .

TRUSAL ® COLORS

TRUSAL ® is available in a wide collection of colors

- *Wooden Colors.* (R Collections)
- *Semi natural Marble Colors.* (M Collections)
- *Semi natural Stone Colors.* (T Collections)
- *Semi OpenBook boards Colors.* (A Collections) (NEW)
- *Solid Colors.* (L Collections)
- *Colors with Granite Chips.* (G Collections)

TRUSAL ® is available in semi-gloss surface finish, final surface finish should be supplied by the fabricator and it may range from matt to high gloss, dark solid colors are not recommended because they must be finished in high gloss which is difficult to maintain on kitchens and countertops, also minor scratches are visible due to the dark background and thus require regular polishing to keep original appearance.

Custom Colors can be manufactured.

TRUSAL ® Shapes

Complementary items such as sinks and washbasins are available in a variety of standard designs to meet different customers tastes and requirements. TRUSAL ® molded shapes and sheets can be joint together seamlessly to create amazing designs appearance.

TRUSAL ® shapes are available in L Collections colors.

PERFORMANCE PROPERTIES

MECHANICAL PROPERTIES

The mechanical properties refer to the ability of the material to withstand applied forces and its expected reaction under stress.

<i>Property</i>	<i>Test Result</i>	<i>Test Method</i>
Flexural Modulus	(10 → 12) GPA	(ASTM D 790-99)
Flexural Strength	(45 → 60) MPA	(ASTM D 790-99)
Elongation at Break	(2.5 → 2.8) MM	(ASTM D 790-99)
Tensile Modulus	10300 MPA	(ASTM D638)
Tensile Strength	35.5 MPA	(ASTM D638)
Tensile Elongation	0.36 %	(ASTM D638)
Ball Impact Resistance	Pass @ 152 CM	NEMA LD 3-2000 / 3.8
Flatness of Sheet	≤ 1.6 MM	(ISFA SST 4.1-00)

Tests were performed on TRUSAL ® 12 mm thickness sheet in ATAA laboratory. The information contained in this section is based on technical data which ATAA believes to be reliable and is intended for use by persons who have knowledge in this technical area at their own discretion. Typical properties refer to an average value.

PHYSICAL PROPERTIES

The physical properties refer to the performance of the material under surrounding environmental conditions and other external actions.

<i>Property</i>	<i>Test Result</i>	<i>Test Method</i>
Barcol Hardness	(55 → 65)	(ASTM D 2583-95)
High Temperature Resistance	No Visible Mark	NEMA LD 3-2000 / 3.6
Boiling Water Resistance	No Visible Mark	NEMA LD 3-2000 / 3.5
Consistency of Color	Pass	(ISFA SST 2.1-00)
Visual Defects	Pass	(ISFA SS 5.1-00)
Cleanability / Stain Resistance	(20 < 52) Pass	(ISFA SST 3.1-00)
Thermal Expansion	24×10^{-5} mm/mm. C°	(ASTM E 228-1993)
Light Resistance	No Effect	(ISFA SST 7.1-00)
Cigarette Burn test	No visible damage	ANSI Z124.6-2007
Fungi Resistance	No Growth	(ASTM G 21-96)
Bacteria Resistance	No Growth	(ASTM G 22-96)

BASIC LIMITATIONS

TRUSAL ® is designed to be used for interior applications and is not recommended for exterior applications. However, when using TRUSAL ® for exterior applications, the design, fabrication and installation procedures must be considered and reviewed as extreme exposure to direct UV light and/or elevated temperatures may result in adhesive failure, surface cracks and/or color change and the product will not be warrantied in such cases.

- 1. TRUSAL ® is not recommended for exterior building facades or similar applications.*
- 2. Although TRUSAL ® can withstand high temperatures, it should be protected with pads or heat shields against direct heat.*

TRUSAL ® is non-porous so spills will not be absorbed by the surface. However, some chemicals can stain, discolor or damage the surface of TRUSAL ®. These chemicals include but not limited to strong acids (e.g. concentrated sulphury acid), ketones (e.g. acetone), chlorinated solvents (e.g. chloroform). The extent of the damage will depend on the length of contact.



Technical Data Sheet

FABRICATION AND INSTALLATION

TRUSAL ® is sold in the form of sheets, sinks and washbasins. The sheets are worked / fabricated like wood in regard to cutting, sanding and milling and pieces can be joined seamlessly using TRUSAL ® adhesive.

The edges to be joined should be straight, smooth and clean. Some seams need to be reinforced. Joints should only be made with "TRUSAL ® adhesive".

Some colors of TRUSAL ® that R&M&T&F COLLECTION require special considerations in jointing.

MAINTENANCE

How to prevent damage to TRUSAL ®

Avoid any prolonged contact with chemicals such as strong acids, alkalis and/or organic solvents.

Remove any spills as quick as possible out from the surface.

Keep the surface dry from water.

Repairing TRUSAL ®

Damages to TRUSAL ® surfaces are easily repaired including but not limited to superficial cuts, scratches, some cracks and/or stains.

Warranty

ATAA provides a 12 years limited warranty for TRUSAL ® products starting from production date. The warranty covers the repair or replacement of the product free of charge at the manufacturer's discretion of manufacturing defects in TRUSAL ® material, . Any defect to the product shall be immediately reported to prevent any further related defects and in this case, ATAA has the right to not hold responsible for the new defects. The warranty do not cover any damages or defects caused to the product by user misuse.

