

## TECHNICAL DATA SHEET

### **HANDY FIX PRO**

#### *Heavy Duty Adhesive and Sealant*

#### PRODUCT DESCRIPTION

**HANDY FIX PRO** is a modified silicone sealant, specially engineered for heavy-duty bonding and sealing needs.

**HANDY FIX PRO** is ideal for bonding most of the common construction materials, including metals, plastics, timber, ceramic, concrete, mortar, glass, mirror, and other inorganic materials. It is formulated from special polymers, making it a durable elastomeric property for interior and exterior use.

**HANDY FIX PRO** has excellent stability and resistance to weathering, and exposure to UV, ozone, rain, and airborne contaminants.

#### CUSTOMER BENEFITS:

- Excellent adhesion
- UV resistant
- Non-corrosive
- Water-resistant
- Outdoor application
- Mold-resistant
- Paintable
- Flexible
- Non-toxic
- Does not discolor
- No odor

#### RECOMMENDED FOR:

- Bonding metals, plastics, timber, ceramic, concrete, mortar, glass, mirror, and other inorganic materials
- Sealants for joints in aluminum and steel frames
- Interior and exterior sealants for general gaps, expansion joints, and cracks
- Sealing vinyl, aluminum, steel, and plywood sidings
- Fixing tiles, walls and floor panels, insulation materials
- Suitable for fixing polystyrene wall panels
- Structural boning in vibrating constructions
- Sealing of internal or external expansion joints in brickwork or concrete
- Bonding and sealing polycarbonate roofing
- Sealing and bonding in construction, building, and stonework.

#### SUBSTRATE

##### **Metals:**

- Aluminum
- Stainless steel
- Iron
- PVC steel
- Galvanized steel

##### **Plastics:**

- Rigid PVC
- Polycarbonate
- Polystyrene
- Vinyl

##### **Inorganic materials:**

- Mortar, concrete, and slate
- ALC (aerated lightweight concrete)
- Melamine decorative sheet
- Glass and mirrors
- Marble, granite, ceramic, and brick
- Plasterboard

##### **Timber:**

- Cedar
- Cypress
- Plywood
- Particleboard

#### LIMITATIONS

**HANDY FIX PRO** is not suitable for:

- Joints with more than  $\pm 20\%$  movement
- Exterior glass glazing
- Prolonged immersion in water e.g. swimming pools
- PE, PP, or acrylics (pre-test before use on all plastics)

**Note:** *Before using this product, it is advisable to perform a pre-test on the substrate to ensure compatibility and prevent any potential adverse reactions.*

#### INSTRUCTION FOR USE

##### **SURFACE PREPARATION**

Clean all joints, cracks, gaps, and surfaces thoroughly. The substrates should be free from dust, oil, dirt, grease, etc. where **HANDY FIX PRO** is to be applied. Surface should be dry before application.

##### **APPLICATION**

###### **AS ADHESIVE:**

Apply to one surface and press together the substrates. **HANDY FIX PRO** will be able to hold light substrates in place without temporary fixing or bracing. Substrates can be adjusted within 10 minutes after application. External stress can be applied after 24 hours. Full bonding strength can be achieved after 3 to 7 days, depending on temperature, ventilation, and the porosity of substrates.

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#### AS SEALANT:

Apply into gaps or joints and tool off. For large gaps and joints, mask off with tape and apply into joint and tool off. Touch cure in 10 minutes.

#### CLEAN UP

Uncured **HANDY FIX PRO** may be removed from tools and substrates with mild solvents like methylated spirits, mineral turpentine, or acetone. Trim with a sharp knife when cured.

#### TECHNICAL SPECIFICATIONS

Color	:	White
Odor	:	Odorless
Solids Content	:	ca. 98%
Specific Gravity	:	ca. 1.59 g/mL
Consistency	:	Pasty, thixotropic
Viscosity (at 23°C)	:	ca. 300 Pa*s
Tack Free Time (23°C, 50% RH)	:	ca.20 mins
Cure Depth (23°C, 50% RH)	:	ca. 4 mm/24hr
JIS A Hardness	:	41
Application Temp	:	5°C to 40°C
In Service Temp range	:	-30°C to 40°C
Stress at 100% elongation (JIS K-6301)	:	ca. 0.8 MPa
Tensile Strength (JIS K-6301)	:	ca.1.8 MPa
Elongation to break (JIS K-6301)	:	ca. 500%

#### PACKAGING

**HANDY FIX PRO** is available in a 280 mL cartridge

#### ESTIMATING DATA / COVERAGE

Recommended coverage:

2.8 linear meter at 10mm x 10mm bead size per cartridge.

#### STORAGE AND HANDLING

**HANDY FIX PRO** has a minimum shelf life of 12 months if maintained in dry storage conditions in unopened packaging. Store in a cool and dry place below 35°C. Keep tightly closed in original containers to prevent contact with moisture.

#### PRECAUTIONS

##### HEALTH AND SAFETY

This product doesn't contain any hazardous ingredients according to the criteria of the Japanese Ministry. Avoid long-time contact with skin. If it comes into contact with the skin, wipe it with a cloth or paper and wash it with soap and water. Follow normal hygiene and wear gloves.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

#### KEEP OUT OF REACH OF CHILDREN

#### WARRANTY AND DISCLAIMERS

*The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.*