BETA KİMYA SANAYİ ve TİCARET A.Ş.

TECHNICAL DATA SHEET
APEL PROSERIES MS POLYMER HIGH TACK

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TDS No: *TDS-230*

1. PRODUCT DESCRIPTION

Trade Name: Apel MS660 Proseries Ms Polymer High-Tack

Product Description: One component, **m**oisture curing, silane-terminated polymer based adhesive. The product can be used in construction and in various assembly works and applications.

Features & Benefits

- High initial grab,
- Does not contain solvent, silicone or isocyanate,
- Semi-elastic bonding,
- Very good UV resistance
- Excellent elasticity and very good adhesion strength
- Over-paintable with water based paints,
- No bubble formation
- No shrinkage

2. TECHNICAL DATA

Base: 1-C moisture curing silane-terminated polymer

Colour: White

Density: 1,52±0,03 g/cm^3

Tack-Free Time (@23^{o}C, 50% humidity): 5-10 min.

Shore hardness (ISO 868): 60±5 Shore A

Curing rate (@23^{o}C, 50% humidity): 2,5-3 mm/24h

Tensile Strenght (ISO 37): 150-200 N/cm^2

Elongation at Break (ISO 37): % 250

Aplication Temperature: +5^{o}C and +40^{o}C

Temperature range: -40°C to +90°C

Solubility in water: Not soluble

3. APPLICATIONS

Applications Areas:

- Wall cladding elements and ceiling panels
- Sound isolation panels (mineral wool, wood-wool cement & plastic foams)
- Thermal isolation panels (PUR, PIR, PS)
- Casings and frames in building construction
- Wooden and plastic laths, ornaments and frames

- Doorsteps, window sills, skirting boards and cover plates
- Complete construction elements (such as roofing and facade elements) in frame.

4. INSTRUCTIONS

- Clean application place (dry and free of grease and dust).
- The application temperature should be between +5ºC and +40ºC
- Polyolefins like PE, PP etc ... can not be bonded without pre-treatment such as plasma or korona method.
- The adhesive must also be wetted with water in order to achieve complete curing during bonding of non-absorbent materials.
- The adhesive must be applied one-sidedly, and after the surfaces are joined, they should be pressed until their functional strength is obtained, the overflowing parts should be cleaned up quickly.
- The bonded parts should only be painted after the adhesive has totally hardened; bubble formation can be observed when painting is applied before curing.
- Adhesions with different length expansions should be evaluated in terms of storage time behavior, especially in the case of loading in various temperature application zones.
- Powder coatings with PTFE ratios can not be reliably bonded without pre-treatment.
- Due to the difficult identification of aluminum surfaces and their qualities, the supplier should be well informed in order to be able to perform the best preliminary work for the planned bonding.
- For the usage, insert cartridge in gun then cut to open cartridge screw nozzle on cartridge and cut of tip at desired angle.
- Joint width/depth ratio should be 2:1.
- The applied adhesive should be expected to cure for at least 24 hours depending on the thickness of the material.

5. PACKAGING

It is presented in 290 ml original plastic cartridges.

6. STORAGE AND SHELF LIFE

Shelf life is 12 months after the production date if stored in its original package between 10˚C to 25˚C.

7. WARNINGS/ SAFETY PRECAUTIONS

Protect from sunlight and freezing .
Wear any liquid-tight rubber or vinyl gloves.
Consult Material Safety Data Sheet for further information.