

Primer for TOSSEAL

TOSSEAL primers are specially designed to insure bonding strength and durability of TOSSEAL sealants to joint surface. Proper use of primers for each TOSSEAL sealant is strongly recommended. A trial application is recommended to verify adhesion onto substrates and compatibility with them.

KINDS OF PRIMERS

| | TOSPRIME C | TOSPRIME D | TOSPRIME E | TOSPRIME New F | YP9341 |
|---|---|--|---|--|--|
| Appearance | Pale-yellow Transparent | Pale-yellow Transparent | Pale-yellow Transparent | Pale-yellow Transparent | Transparent |
| Specific gravity (23°C) | 0.99 | 0.86 | 0.87 | 0.89 | 0.89 |
| Dry time min | 60 | 30 | 30 | 30 | 30 |
| Sealants | TOSSEAL 381,83, 361, 64, 10, 380, 803, 80-SC | TOSSEAL 371, 73, 78, 380, 803, 80-SC, 381, 83 | TOSSEAL 371, 73, 380, 803, 80-SC 381, 83 | TOSSEAL 361, 64, 10 | TOSSEAL 371, 73, 381, 83 |
| Substrates | Mortar, Masonry | Glass, Metals, Ceramics | Paint, Painted metals, Plastics, Rubbers | Electrodeposition painted aluminum, Glass, Fluorocarbon paint | Paint, Painted metals, Plastics, Rubbers |
| Ingredient | Silicone modified Urethane | Silane | Silane | Silane | Silicone modified Acrylic |
| Solvents | Butyl acetate | Acetone, IPA, Toluene | Acetone, IPA, Toluene | Toluene | Butyl acetate |
| Packaging volume, ml | 300 | 300 | 300 | 300 | 500 |
| Container | Can | Can | Can | Can | Bottle |
| Coverage rates, m^2/l (g/m^2) | 2~5 (200~500) | 15~25 (45~60) | 15~25 (45~60) | 15~25 (45~60) | 15~25 (45~60) |

Hereafter primers name are abbreviated as follows

TOSPRIME C ----- C

TOSPRIME D ----- D

TOSPRIME E ----- E

TOSPRIME New F ----- new F

YP9341 ----- 9341

SELECTION GUIDE CLASSIFIED BY SUBSTRATES

| Substrates | TOSSEAL 361 | TOSSEAL 64 | TOSSEAL 10 | TOSSEAL 381, 83, 84, 371, 73, 78 | TOSSEAL 380, 803, 80-SC |
|---------------------------------------|----------------|----------------|----------------|--|-------------------------------|
| Mortar, Masonry | | | | | |
| Mortar ¹ | C | (C) | C | C | C/D |
| ALC | C | (C) | C | C | C/D |
| Marble ² | C | | C | C | C |
| Granite | C | (C) | C | C/D | C/D |
| Slate | C | (C) | C | C/D | C/D |
| Glass, Ceramics | | | | | |
| Float glass | new F | new F | new F | D | D |
| Heat reflective glass | new F | new F | new F | D | D |
| Hi-performance heat reflective glass | new F | new F | new F | D | D |
| Tile | new F | new F | new F | D | D |
| Metals | | | | | |
| Aluminum | new F | new F | new F | D | D |
| Anodized color aluminum ^{*3} | new F | new F | new F | D | D |
| Tinplate | new F | new F | new F | D | D |
| Galvanized iron | new F | new F | new F | D | D |
| Steel | new F | new F | new F | D | D |
| SUS 304 | new F | new F | new F | (D) | (D) |
| Paints, Painted metals | | | | | |
| Baked acrylic (Duracron) | new F | new F | new F | 9341/E | D |
| Urethane lacquer (Acrethan) | new F | new F | new F | E | D |
| Urethane lacquer (V-Top) | new F | new F | new F | E | D |
| Baked Urethane lacquer (V-Chroma) | new F | new F | new F | E | D |
| Epoxy | new F | new F | new F | E | D |
| Fluorocarbon (Duflon) | new F | new F | new F | E | D |
| Fluorocarbon (New garmet) | new F | new F | new F | E | D |
| PVC coated steel | new F | new F | new F | E | D |
| Electrodeposition paint | new F | new F | new F | (without primer) | without primer |
| Plastics | | | | | |
| FRP | (new F) | (new F) | (new F) | E | D |
| Rigid PVC | new F | new F | new F | 9341/E | D |
| Polycarbonate ⁴ | - | - | - | - | without primer |
| Acrylic resin ^{4*5} | new F·D | (D) | new F | (9341/E) | without primer |
| Epoxy resin | new F | new F | new F | 9341/E | D |
| Urea resin | new F | new F | new F | 9341/E | D |
| Phenolic resin | new F | new F | new F | 9341/E | D |
| Nylon | new F | new F | new F | 9341/E | D |
| ABS | new F | new F | new F | 9341/E | D |
| Sealants | | | | | |
| Polysulfide | new F | | new F | (D) | D |
| TOSSEAL 361 | without primer | without primer | without primer | without primer | without primer |
| TOSSEAL 371 | without primer | without primer | without primer | without primer | without primer |
| TOSSEAL 381 | without primer | without primer | without primer | without primer | without primer |

| Rubbers | | | | | |
|----------------|---------|---------|---------|-----|-----|
| CR | (new F) | (new F) | (new F) | (E) | (E) |
| NBR | (new F) | (new F) | (new F) | (E) | (E) |
| SBR | (new F) | (new F) | (new F) | (E) | (E) |
| EPR | (new F) | (new F) | (new F) | (E) | (E) |
| Woods | (C) | (C) | (C) | (C) | (D) |

Note *1: A preliminary test is recommended for confirmation because adhesion properties vary depending on the kinds of release agent for mortar.

*2: Do not use on marble without primer because of migration. TOSPRIME C is recommended.

*3: A preliminary test is recommended for confirmation because adhesion properties vary depending on the anodizing methods.

*4: n-Hexane is recommended for cleaning.

*5: A preliminary solvent crack test is recommended for confirmation.

- 1) Two primers divided by a slash mark, "/" are both applicable to the respective substrates and sealants. The one to the left of the slash is generally recommended.
- 2) Two primers divided by a dot mark are both applicable equivalently.
- 3) Primers enclosed by () are not enough for adhesion, but better one.
- 4) Blank columns show no data.
- 5) The mark "-" shows non-recommended application.
- 6) TOSSEAL 371, 73 and 78 are not recommended for mortar, masonry application.

When there is not a common primer in combination with different kind of substrates, the proper primer for each substrate should be applied separately.

Careful attention to primer selection should be always performed. A preliminary test is recommended for confirmation.

Regarding other substrates, please contact us.

DRYING TIME

| Temp. °C \ Primers | Drying time, min | | | | |
|--------------------|------------------|----|----|-------|------|
| | C | D | E | new F | 9341 |
| 0~10 | 80 | 50 | 50 | 60 | 50 |
| 10~20 | 70 | 40 | 40 | 40 | 40 |
| 20~30 | 60 | 30 | 30 | 30 | 30 |
| 30< | 30 | 10 | 10 | 20 | 10 |

HANDLING AND SAFETY

- ◆ Wear eye protection and protective glove when handling this product.
- ◆ In case of eye contact, immediately flush eyes well with water and contact a physician.
- ◆ Extended contact with the skin may cause irritation and should be avoided.
- ◆ Adequate ventilation must be maintained in the work place at all times.
- ◆ This product is inflammable. Do not use near any source of flame or ignition.

STORAGE

- ◆ Store in a cool and dry place out of direct sunlight.
- ◆ Shelf life is as follows

| PRIMER | SHELF LIFE |
|----------------|------------|
| TOSPRIME C | 9 months |
| TOSPRIME D | 9 months |
| TOSPRIME E | 9 months |
| TOSPRIME New F | 9 months |
| YP9341 | 6 months |

- ◆ Keep out of the reach of children.

PACKAGING

TOSPRIME C ----- 300 ml can available in cases of 20
TOSPRIME D ----- 300 ml can available in cases of 20
TOSPRIME E----- 300 ml can available in cases of 20
TOSPRIME New F ----- 300 ml can available in cases of 20
YP9341 ----- 500 ml bottle available in cases of 10

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